PRODUCTS CATALOGUE 2019

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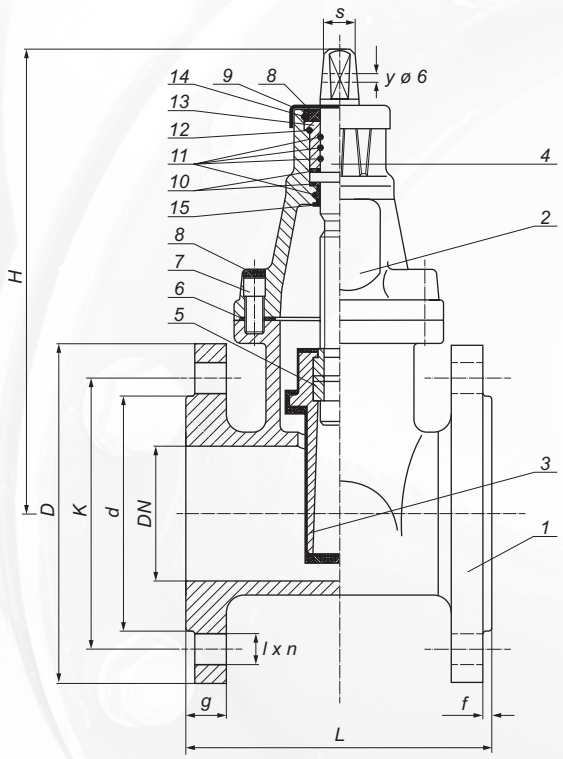
Product photos in this catalog are for reference only.
Some products may differ slightly from those presented in the pictures.

Flanged gate valve type 111 F4 PN 10



No.	Description	Pcs.	Material
1.	Body	1	EN-GJL-250
2.	Cover	1	EN-GJL-250
3.	Rubberized wedge	1	EN-GJL-250/EN-GJS-500-7/ EPDM/NBR
4.	Spindle	1	Stainless steel 2H13
5.	Nut	1	Brass MO59
6.	Cover gasket	1	EPDM/NBR
7.	Allen screw	4	Galvanized steel 8.8 class/ Stainless steel A2
8.	Screw shield	5	Glue
9.	Spindle shield	1	EPDM/NBR
10.	Bearing	2	Tarnamid
11.	Spindle O-ring	4	EPDM/NBR
12.	Choke O-ring	1	EPDM/NBR
13.	Choke	1	Brass MO59
14.	Protection ring	1	Steel
15.	Locking sleeve	1	Tarnamid

It is used to cut off flow of chemically inert liquids of temperature up to 70°C in water pipelines and installations.

Coating: epoxy paint 250-360 µm
Overall lenght: PN-EN 558-1:2001
Flange connection: PN-EN 1092-2:1999
Nominal pressure: 1,0 MPa; PN 10
Requirements and inspection according to PN-EN 1074-1,2:2002

Option to exchange O-rings under pressure on a working pipeline.

DN	L	H	K	d	l	n	D	g	f	s	Weight
50	150	210	125	102	18	4	165	18	3	14	11,50
80	180	280	160	135	18	4(8)	200	20	3	17	17,00
100	190	290	180	155	18	8	220	20	3	19	20,50
150	210	400	240	212	22	8	285	20	3	19	39,00
200	230	500	295	266	22	8	340	25	3	24	67,50

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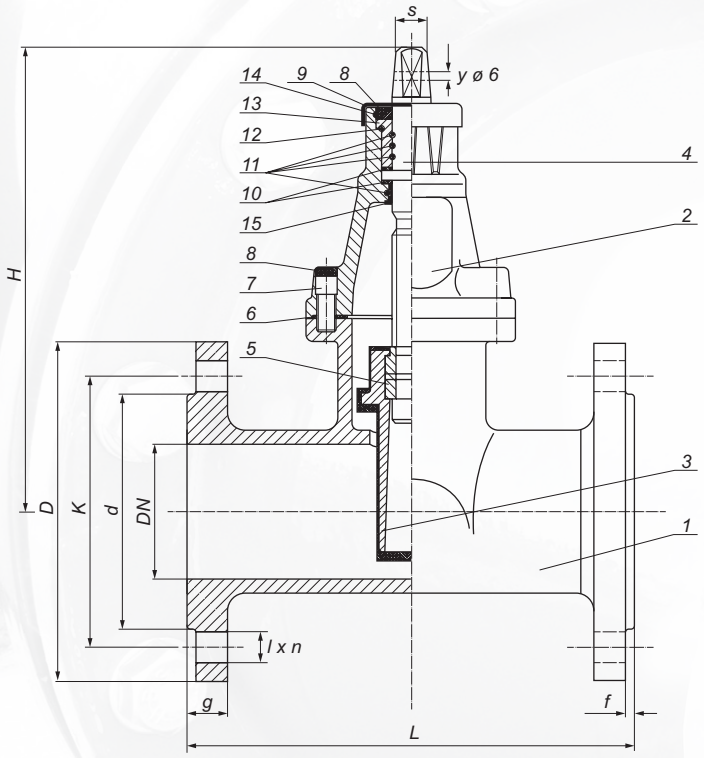
Flanged gate valve type 111 F4 PN 10

Flanged gate valve type 002 F5 PN 10



No.	Description	Pcs.	Material
1.	Body	1	EN-GJL-250
2.	Cover	1	EN-GJL-250
3.	Rubberized wedge	1	EN-GJL-250/EN-GJS-500-7/ EPDM/NBR
4.	Spindle	1	Stainless steel 2H13
5.	Nut	1	Brass MO59
6.	Cover gasket	1	EPDM/NBR
7.	Allen screw	4	Galvanized steel 8.8 class/ Stainless steel A2
8.	Screw shield	5	Glue
9.	Spindle shield	1	EPDM/NBR
10.	Bearing	2	Tarnamid
11.	Spindle O-ring	4	EPDM/NBR
12.	Choke O-ring	1	EPDM/NBR
13.	Choke	1	Brass MO59
14.	Protection ring	1	Steel
15.	Locking sleeve	1	Tarnamid

It is used to cut off flow of chemically inert liquids of temperature up to 70°C in water pipelines and installations.

Coating: epoxy paint 250-360 µm
Overall lenght: PN-EN 558-1:2001
Flange connection: PN-EN 1092-2:1999
Nominal pressure: 1,0 MPa; PN 10
Requirements and inspection according to PN-EN 1074-1,2:2002

Option to exchange O-rings under pressure on a working pipeline.

DN	L	H	K	d	l	n	D	g	f	s	Weight
50	250	210	125	102	18	4	165	18	3	14	12,50
80	280	280	160	135	18	4(8)	200	20	3	17	20,00
100	300	290	180	155	18	8	220	20	3	19	23,50
150	350	400	240	212	22	8	285	20	3	19	40,50
200	400	500	295	266	22	8	340	25	3	24	80,50

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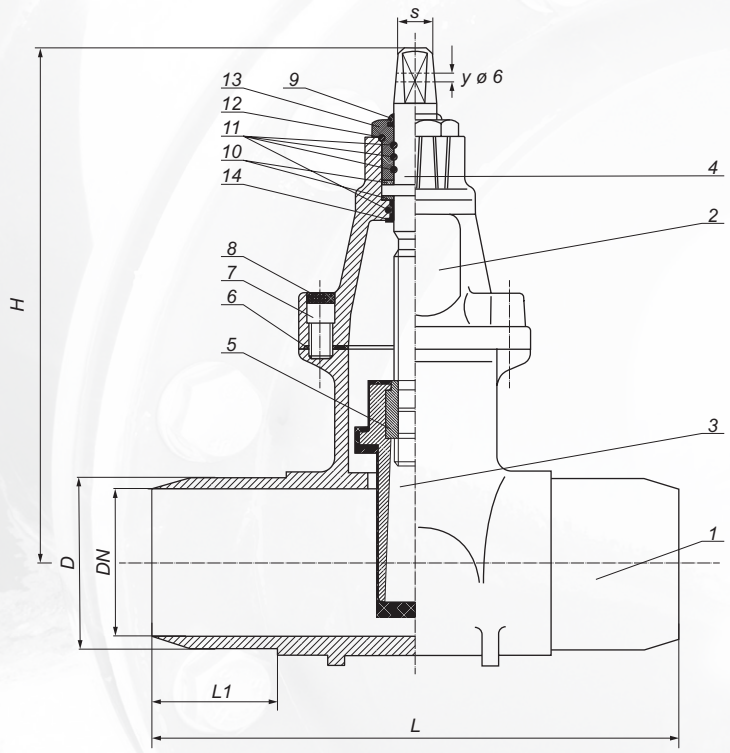
Flanged gate valve type 002 F5 PN 10

Bare gate valve PN 10



No.	Description	Pcs.	Material
1.	Body	1	EN-GJL-250
2.	Cover	1	EN-GJL-250
3.	Rubberized wedge	1	EN-GJL-250/EN-GJS-500-7/ EPDM/NBR
4.	Spindle	1	Stainless steel 2H13
5.	Nut	1	Brass MO59
6.	Cover gasket	1	EPDM/NBR
7.	Allen screw	4	Galvanized steel 8.8/ Stainless steel A2
8.	Screw shield	4	Glue
9.	Lip seal	1	EPDM/NBR
10.	Bearing	2	Tarnamid
11.	Spindle O-ring	4	EPDM/NBR
12.	Choke O-ring	1	EPDM/NBR
13.	Choke	1	Brass MO59
14.	Locking sleeve	1	Tarnamid

It is used to cut off flow of chemically inert liquids of temperature up to 70°C in water pipelines and installations.

Coating: epoxy paint 250-360 µm
Nominal pressure: 1,0 MPa; PN 10
Requirements and inspection according to PN-EN 1074-1,2:2002

Option to exchange O-rings under pressure on a working pipeline.

DN	D	L	L1	H	s	Weight
80	90	280	85	280	17	12,00
100	110	300	95	290	19	15,50

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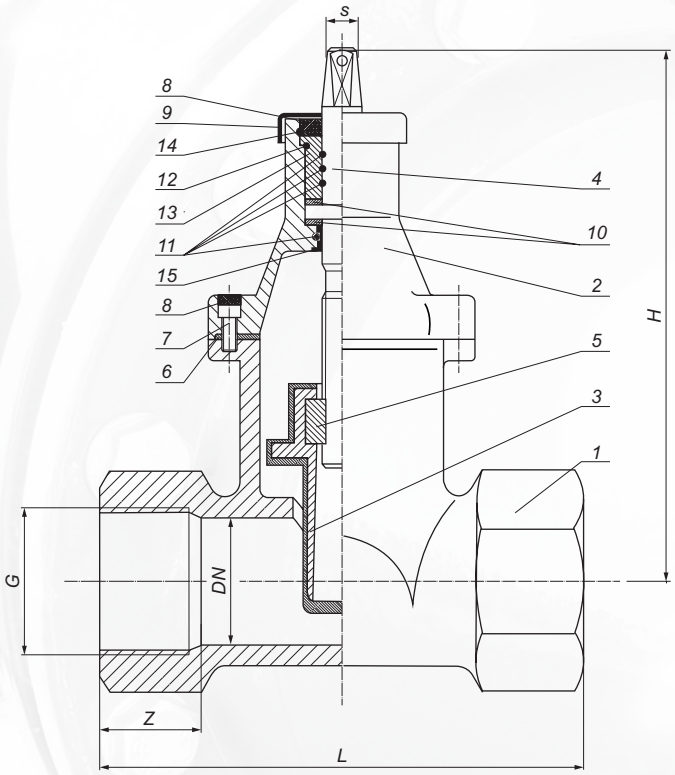
Bare gate valve PN 10

Service valve PN 10



The drawing and description apply to service valves DN32, DN40, DN50.

No.	Description	Pcs.	Material
1.	Body	1	EN-GJL-250
2.	Cover	1	EN-GJL-250
3.	Rubberized wedge	1	EN-GJS-500-7/Brass MO59/EPDM/NBR
4.	Spindle	1	Stainless steel 2H13
5.	Nut	1	Brass MO59
6.	Cover gasket	1	EPDM/NBR
7.	Allen screw	4	Galvanized steel 8.8 class/ Stainless steel A2
8.	Screw shield	5	Glue
9.	Spindle shield	1	EPDM/NBR
10.	Bearing	2	Tarnamid
11.	Spindle O-ring	4	EPDM/NBR
12.	Choke O-ring	1	EPDM/NBR
13.	Choke	1	Brass MO59
14.	Protection ring	1	Steel
15.	Locking sleeve	1	Tarnamid

It is used to cut off flow of chemically inert liquids of temperature up to 70°C in water pipelines and installations.

Coating: epoxy paint 250-360 µm
Nominal pressure: 1,0 MPa; PN 10
Requirements and inspection according to PN-EN 1074-1,2:2002
Threaded socket: PN-EN 10226-1:2006

Option to exchange O-rings under pressure on a working pipeline.

DN	G	L	H	s	z	Weight
20	3/4”	100	160	14	20	1,20
25	1”	100	160	14	20	1,20
32	5/4”	120	170	14	20	2,90
40	6/4”	120	170	14	20	2,90
50	2”	185	215	14	20	7,30

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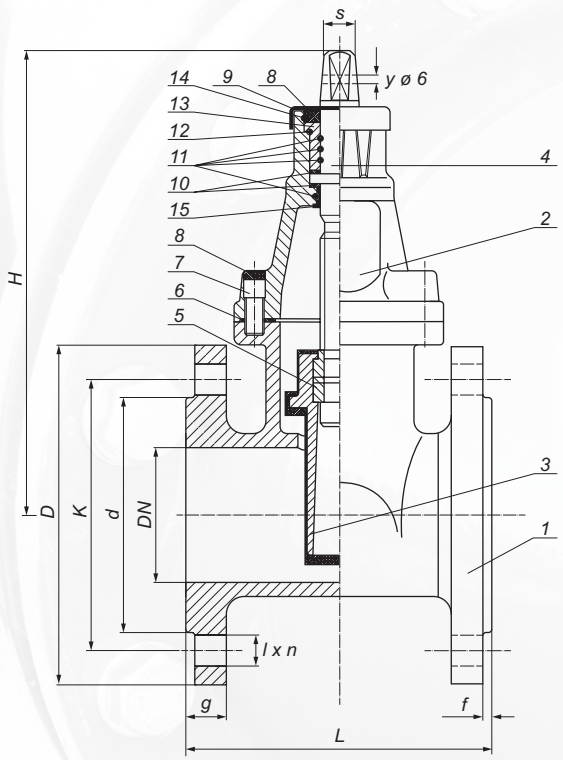
Service valve PN 10

DN32-DN50

DN20, DN25

Flanged gate valve type 111 F4
ductile iron PN 10/16



No.	Description	Pcs.	Material
1.	Body	1	EN-GJS-500-7
2.	Cover	1	EN-GJS-500-7
3.	Rubberized wedge	1	EN-GJS-500-7/EPDM/NBR
4.	Spindle	1	Stainless steel 2H13
5.	Nut	1	Brass MO59
6.	Cover gasket	1	EPDM/NBR
7.	Allen screw	4	Galvanized steel 8.8 class/ Stainless steel A2
8.	Screw shield	5	Glue
9.	Spindle shield	1	EPDM/NBR
10.	Bearing	2	Tarnamid
11.	Spindle O-ring	4	EPDM/NBR
12.	Choke O-ring	1	EPDM/NBR
13.	Choke	1	Brass MO59
14.	Protection ring	1	Steel
15.	Locking sleeve	1	Tarnamid

It is used to cut off flow of chemically inert liquids of temperature up to 70°C in water pipelines and installations.

Coating: epoxy paint 250-360 µm
Overall lenght: PN-EN 558-1:2001
Flange connection: PN-EN 1092-2:1999
Nominal pressure: 1,0/1,6 MPa; PN 10/16
Requirements and inspection according to PN-EN 1074-1,2:2002

Option to exchange O-rings under pressure on a working pipeline.

DN	L	H	K	d	l	n	D	g	f	s	Weight
50	150	210	125	102	18	4	165	18	3	14	10,50
65	170	250	145	118	18	4	185	18	3	17	13,00
80	180	280	160	135	18	8	200	20	3	17	17,00
100	190	290	180	155	18	8	220	20	3	19	20,50
125	200	350	210	184	18	8	250	20	3	19	30,00
150	210	400	240	212	22	8	285	20	3	19	33,00
200	230	500	295	266	22	8(12)	340	22	3	24	69,00
250	250	640	350 (355)	320	22 (26)	12	400	22	3	27	102,00
300	270	740	400 (410)	376	22 (26)	12	455	25	4	27	148,00

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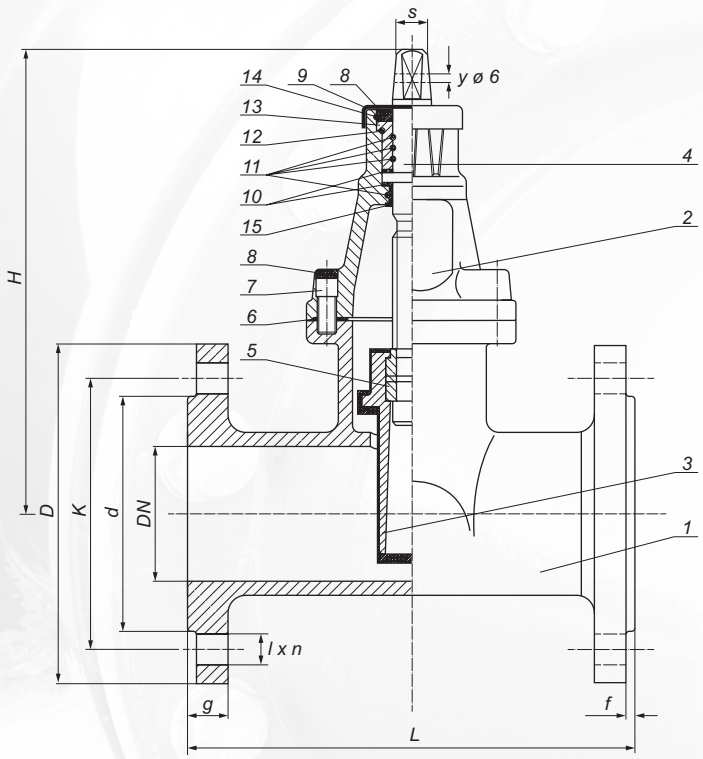
Flanged gate valve type 111 F4 ductile iron PN 10/16

Flanged gate valve type 002 F5
ductile iron PN 10/16



No.	Description	Pcs.	Material
1.	Body	1	EN-GJS-500-7
2.	Cover	1	EN-GJS-500-7
3.	Rubberized wedge	1	EN-GJS-500-7/ EPDM/NBR
4.	Spindle	1	Stainless steel 2H13
5.	Nut	1	Brass MO59
6.	Cover gasket	1	EPDM/NBR
7.	Allen screw	4	Galvanized steel 8.8 class/ Stainless steel A2
8.	Screw shield	5	Glue
9.	Spindle shield	1	EPDM/NBR
10.	Bearing	2	Tarnamid
11.	Spindle O-ring	4	EPDM/NBR
12.	Choke O-ring	1	EPDM/NBR
13.	Choke	1	Brass MO59
14.	Protection ring	1	Steel
15.	Locking sleeve	1	Tarnamid

It is used to cut off flow of chemically inert liquids of temperature up to 70°C in water pipelines and installations.

Coating: epoxy paint 250-360 µm
Overall lenght: PN-EN 558-1:2001
Flange connection: PN-EN 1092-2:1999
Nominal pressure: 1,0/1,6 MPa; PN 10/16
Requirements and inspection according to PN-EN 1074-1,2:2002

Option to exchange O-rings under pressure on a working pipeline.

DN	L	H	K	d	l	n	D	g	f	s	Weight
50	250	210	125	102	18	4	165	18	3	14	11,50
65	270	278	145	118	18	4	185	18	3	17	17,00
80	280	280	160	135	18	8	200	20	3	17	19,00
100	300	290	180	155	18	8	220	20	3	19	22,00
125	325	350	210	184	18	8	250	20	3	19	33,00
150	350	400	240	212	22	8	285	20	3	19	37,50
200	400	500	295	266	22	8 (12)	340	22	3	24	76,50
250	450	640	350 (355)	320	22 (26)	12	400	22	3	27	119,00
300	500	740	400 (410)	376	22 (26)	12	455	25	4	27	169,00

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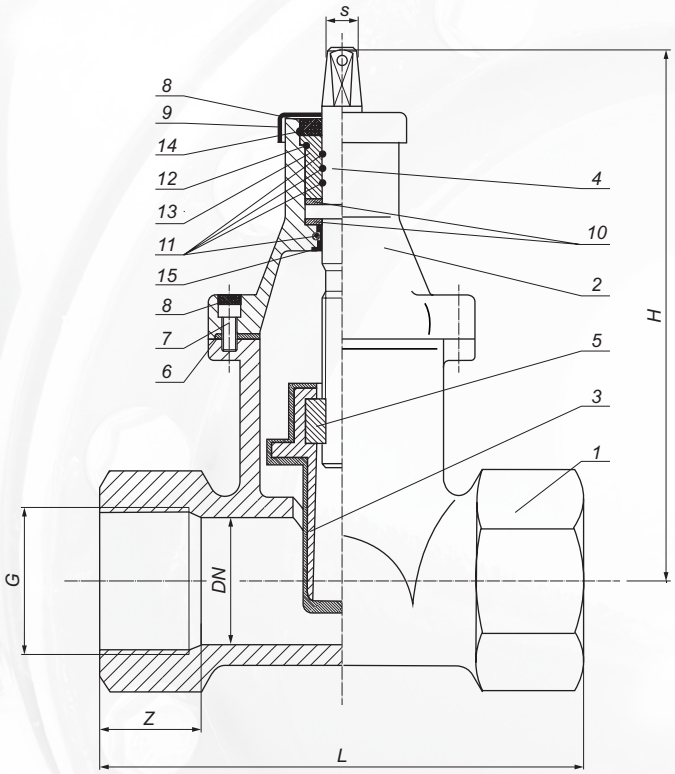
Flanged gate valve type 002 F5 ductile iron PN 10/16

Service valve ductile iron PN 10/16



The drawing and description apply to service valves DN32, DN40, DN50

No.	Description	Pcs.	Material
1.	Body	1	EN-GJS-500-7
2.	Cover	1	EN-GJS-500-7
3.	Rubberized wedge	1	EN-GJS-500-7/Brass MO59/ EPDM/NBR
4.	Spindle	1	Stainless steel 2H13
5.	Nut	1	Brass MO59
6.	Cover gasket	1	EPDM/NBR
7.	Allen screw	4	Galvanized steel 8.8 class/ Stainless steel A2
8.	Screw shield	5	Glue
9.	Spindle shield	1	EPDM/NBR
10.	Bearing	2	Tarnamid
11.	Spindle O-ring	4	EPDM/NBR
12.	Choke O-ring	1	EPDM/NBR
13.	Choke	1	Brass MO59
14.	Protection ring	1	Steel
15.	Locking sleeve	1	Tarnamid

It is used to cut off flow of chemically inert liquids of temperature up to 70°C in water pipelines and installations.

Coating: epoxy paint 250-360 µm
Nominal pressure: 1,0/1,6 MPa; PN 10/16
Requirements and inspection according to PN-EN 1074-1,2:2002
Threaded socket: PN-EN 10226-1:2006

Option to exchange O-rings under pressure on a working pipeline.

DN	G	L	H	s	z	Weight
20	3/4”	100	160	14	20	1,20
25	1”	100	160	14	20	1,20
32	5/4”	120	170	14	20	2,80
40	6/4”	120	170	14	20	2,80
50	2”	185	215	14	20	7,20

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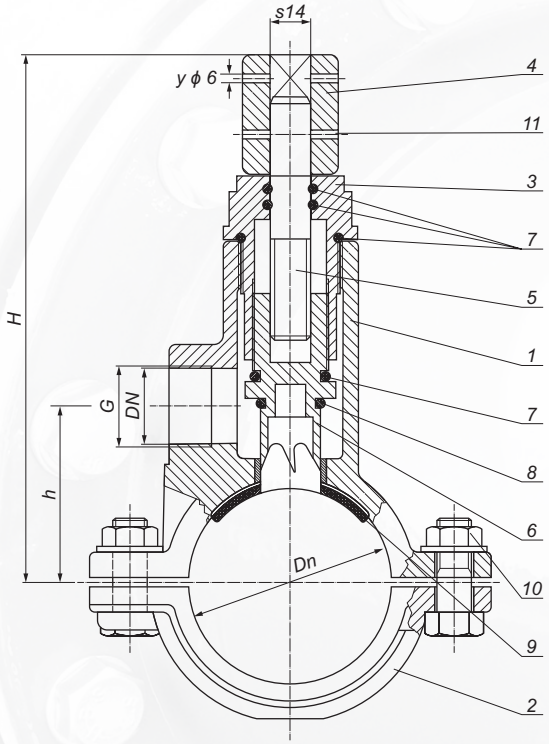
Service valve ductile iron PN 10/16

DN32-DN50

DN20, DN25

Spotting drill NS (self-drilling) for PE and PVC pipes PN 10 and ductile iron PN 10/16



It is used for connecting home installations to the water supply pipeline made of PE and PVC pipes without the use of additional equipment. The connection can be made on the working water supply network.

Medium: non-aggressive liquids with a temperature up to 70°C
Coating: epoxy paint 250-360 µm
Nominal pressure: 1,0/1,6 MPa; PN 10/16

No.	Description	Pcs.	Material
1.	Body	1	EN-GJL-250/EN-GJS-500-7
2.	Saddle	1	EN-GJL-250/EN-GJS-500-7
3.	Plug screw	1	EN-GJL-250/EN-GJS-500-7
4.	Cap	1	EN-GJL-250/EN-GJS-500-7
5.	Spindle	1	Stainless steel 2H13
6.	Rotary knife	1	Stainless steel 2H13
7.	O-ring	4	EPDM/NBR
8.	Set gasket	1	EPDM/NBR
9.	Upper saddle gasket	1	EPDM/NBR
10.	Screw, pad, nut	2	Galvanized steel 8.8 class/ Stainless steel A2/A4
11.	Rivet	1	Steel

Dn	G	DN	H	h	Weight
63*	5/4”	32	220	60	4,70
90			230	75	5,80
110			240	85	6,50
125			310	135	8,20
160			260	115	7,50
225			355	185	9,70
63*	6/4”	40	220	60	4,60
90			230	75	5,70
110			240	85	6,40
125			310	135	8,10
160			260	115	7,40
225			355	185	9,60
90	2”	50	290	115	6,60
110			300	125	7,60
125			310	135	8,00
160			325	155	8,50
225			355	185	9,50

** Products available only in ductile iron version EN-GJS-500-7*

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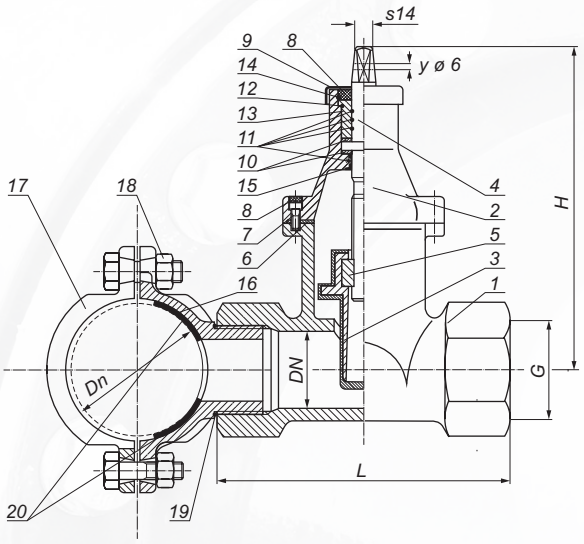
Spotting drill NS (self-drilling) for PE and PVC pipes PN 10 and ductile iron PN 10/16

Spotting drill NZ for PE and PVC pipes ductile iron PN 10/16



It is possible to make a clamp with full rubber lining.

No.	Description	Pcs.	Material
1.	Body	1	EN-GJS-500-7
2.	Cover	1	EN-GJS-500-7
3.	Rubberized wedge	1	EN-GJS-500-7/Brass MO59/ EPDM/NBR
4.	Spindle	1	Stainless steel 2H13
5.	Nut	1	Brass MO59
6.	Cover gasket	1	EPDM/NBR
7.	Allen screw	4	Galvanized steel 8.8 class/ Stainless steel A2
8.	Screw shield	5	Glue
9.	Spindle shield	1	EPDM/NBR
10.	Bearing	2	Tarnamid
11.	Spindle O-ring	4	EPDM/NBR
12.	Choke O-ring	1	EPDM/NBR
13.	Choke	1	Brass MO59
14.	Protection ring	1	Steel
15.	Locking sleeve	1	Tarnamid
16.	Upper saddle	1	EN-GJS-500-7
17.	Lower saddle	1	EN-GJS-500-7
18.	Screw, pad, nut	4	Galvanized steel 8.8 class/ Stainless steel A2/A4
19.	Saddle O-ring	1	EPDM/NBR
20.	Saddle gasket	1	EPDM/NBR

It is used for connecting home installations to the water supply network made of PE and PVC pipes and shutting off the flow. Indentation on an active water supply must be made using a drilling device. Option to exchange O-rings under pressure on a working pipeline.

Medium: non-aggressive liquids with a temperature up to 70°C
Coating: epoxy paint 250-360 µm
Nominal pressure: 1,0/1,6 MPa; PN 10/16

Dn	G	DN	L	H	Weight
63	5/4”	32	120	170	4,70
90			120	170	5,70
110			120	170	5,90
125			120	170	6,30
160			120	170	7,70
225			120	170	9,10
63	6/4”	40	120	170	4,60
90			120	170	5,60
110			120	170	5,80
125			120	170	6,20
160			120	170	7,60
225			120	170	9,00
63	2”	50	185	215	9,00
90			185	215	10,00
110			185	215	10,20
125			185	215	10,60
160			185	215	12,00
225			185	215	13,40

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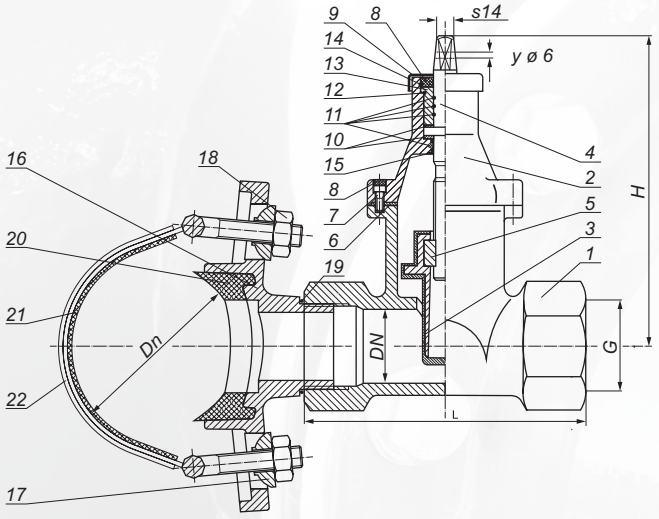
Spotting drill NZ for PE and PVC pipes ductile iron PN 10/16

Spotting drill NZE (for cast iron, AC, steel pipes) ductile iron PN 10/16



It is used to make connections of home installations to the water supply network made of pipes: Cast iron, AC, Steel and flow shut off. Indentation on an active network should be made using a drilling device.

Option to exchange O-rings under pressure on a working pipeline.

Medium: non-aggressive liquids with a temperature up to 70°C
Coating: epoxy paint 250-360 µm
Nominal pressure: 1,0/1,6 MPa; PN 10/16

No.	Description	Pcs.	Material
1.	Body	1	EN-GJS-500-7
2.	Cover	1	EN-GJS-500-7
3.	Rubberized wedge	1	EN-GJS-500-7/ Bras MO59/ EPDM/NBR
4.	Spindle	1	Stainless steel 2H13
5.	Nut	1	Brass MO59
6.	Cover gasket	1	EPDM/NBR
7.	Allen screw	4	Galvanized steel 8.8 class/ Stainless steel A2
8.	Screw shield	5	Glue
9.	Spindle shield	1	EPDM/NBR
10.	Bearing	2	Tarnamid
11.	Spindle O-ring	4	EPDM/NBR
12.	Choke O-ring	1	EPDM/NBR
13.	Choke	1	Brass MO59
14.	Protection ring	1	Steel
15.	Locking sleeve	1	Tarnamid
16.	Upper saddle NZE	1	EN-GJS-500-7
17.	Ball pad	2	Stainless steel
18.	Nut	2	Stainless steel
19.	O-ring	1	EPDM/NBR
20.	Saddle gasket	1	EPDM/NBR
21.	Saddle lining	1	EPDM/NBR
22.	Steel saddle	1	Stainless steel A2

Dn	DN	G	L	H	Weight
75-83	32	5/4"	120	170	4,60
89-104			120	170	4,70
107-130			120	170	4,70
124-144			120	170	4,70
148-160			120	170	4,90
159-178			120	170	4,90
179-200			120	170	5,40
219-238			120	170	5,60
248-275			120	170	6,20
287-307			120	170	6,30
315-327			120	170	6,50
345-371			120	170	6,60
75-83	40	6/4"	120	170	4,60
89-104			120	170	4,70
107-130			120	170	4,70
124-144			120	170	4,70
148-160			120	170	4,90
159-178			120	170	4,90
179-200			120	170	5,40
219-238			120	170	5,60
248-275			120	170	6,20
287-307			120	170	6,30
315-327			120	170	6,50
345-371			120	170	6,60
75-83	50	2"	185	215	8,80
89-104			185	215	8,90
107-130			185	215	8,90
124-144			185	215	8,90
148-160			185	215	9,10
159-178			185	215	9,10
179-200			185	215	9,60
219-238			185	215	9,80
248-275			185	215	10,40
287-307			185	215	10,50
315-327			185	215	10,70
345-371			185	215	10,80

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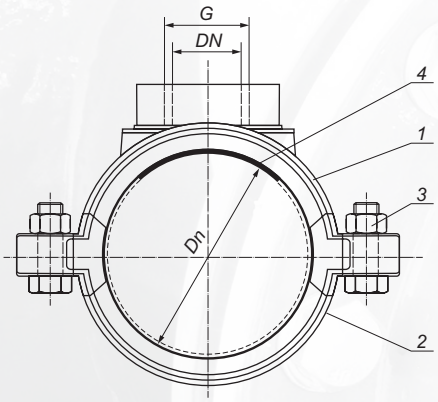
Spotting drill NZE (for cast iron, AC, steel pipes) ductile iron PN 10/16

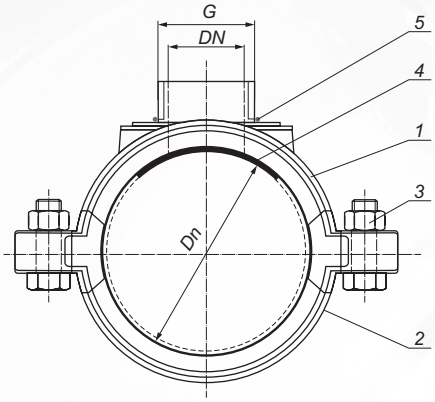
Clamping ring NOBW and NOBZ for PE and PVC pipes, ductile iron PN 10/16

NOBW
with female thread



Dn	G	DN	Weight
63	3/4”	20	1,60
90			2,60
110			3,20
125			3,60
160			4,35
225			6,70
63	1”	25	1,55
90			2,55
110			3,15
125			3,55
160			4,30
225			6,65
63	5/4”	32	1,50
90			2,50
110			3,10
125			3,50
160			4,25
225			6,60
63	6/4”	40	1,45
90			2,45
110			3,05
125			3,45
160			4,20
225			6,55
90	2”	50	2,40
110			3,00
125			3,40
160			4,15
225			6,50

NOBZ
with male thread



Dn	G	DN	Weight
63	1”	25	1,35
90			2,35
110			2,90
125			3,30
160			4,65
225			6,40
63	5/4”	32	1,30
90			2,30
110			2,85
125			3,25
160			4,60
225			6,35
63	6/4”	40	1,25
90			2,25
110			2,80
125			3,20
160			4,55
225			6,30
63	2”	50	1,20
90			2,20
110			2,75
125			3,15
160			4,50
225			6,25

No.	Description	Pcs.	Material
1.	Upper saddle	1	EN-GJS-500-7
2.	Lower saddle	1	EN-GJS-500-7
3.	Screw, pad, nut	4	Galvanized steel 8.8 class/ Stainless steel A2/A4
4.	Saddle gasket	1	EPDM/NBR
5.	O-ring	1	EPDM/NBR

It is used for connecting home installations to the water supply network made of PE and PVC pipes.

Material: ductile iron EN-GJS-500-7, PN-EN 1563:2000
Coating: epoxy paint 250-360 µm
Nominal pressure: 1,0/1,6 MPa, PN 10/16

It is possible to make a clamp with full rubber lining.

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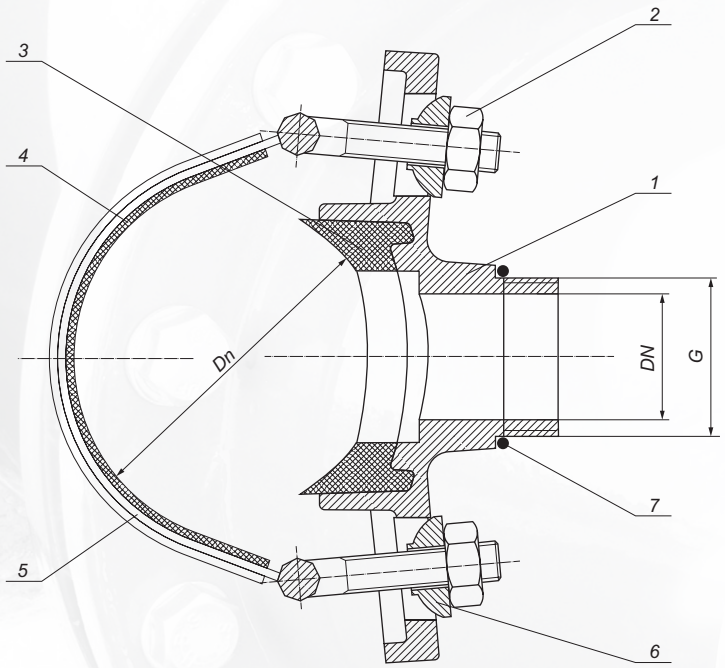
Clamping ring NOBW and NOBZ for PE and PVC pipes, ductile iron PN 10/16

NOBW with female thread

NOBZ with male thread

Threaded saddle NE (for cast iron, AC, steel pipes) ductile iron PN 10/16



It is used to make home connections to the network water supply pipe made of: cast iron, AC, steel. The saddle is used for making connections with external threaded outlet.

Coating: epoxy paint 250-360 µm
Nominal pressure: 1,0/1,6 MPa, PN 10/16

No.	Description	Pcs.	Material
1.	Upper saddle NZE	1	EN-GJS-500-7
2.	Nut	2	Stainless steel A2
3.	Saddle gasket	1	EPDM/NBR
4.	Saddle lining	1	EPDM/NBR
5.	Steel saddle	1	Stainless steel
6.	Ball pad	2	Stainless steel
7.	O-ring	1	EPDM/NBR

Dn	G	DN	Weight
75-83	2”	50	1,70
89-104			1,90
107-130			1,90
124-144			1,90
148-160			2,10
159-178			2,10
179-200			2,60
219-238			2,80
248-275			3,40
287-307			3,50
315-327			3,70
345-371			3,60

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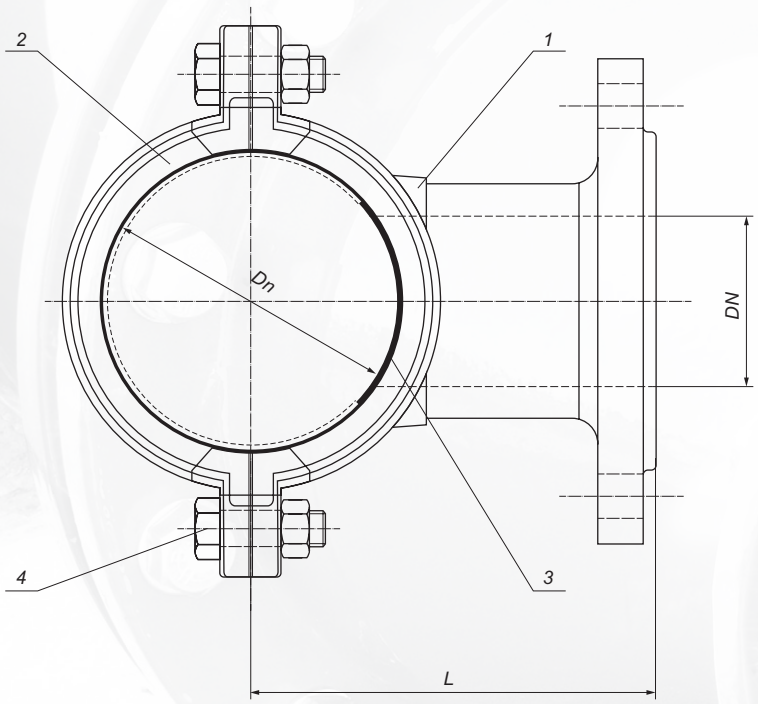
Threaded saddle NE (for cast iron, AC, steel pipes) ductile iron PN 10/16

Flanged saddle NKP for PE and PVC pipes ductile iron PN 10/16



It is used for connecting home installations to the water supply network made of PE and PVC pipes

Material: ductile iron EN-GJS-500-7, PN-EN 1563:2000
Flange connection: PN-EN 1092-2:1999
Coating: epoxy paint 250-360 µm

It is possible to make a clamp with full rubber lining.

No.	Description	Pcs.	Material
1.	Body	1	EN-GJS-500-7
2.	Lower saddle	1	EN-GJS-500-7
3.	Saddle gasket	1	EPDM/NBR
4.	Screw, pad, nut	4	Galvanized steel 8.8 class/ Stainless steel A2/A4

Dn	DN	L	Weight
63	50	110	3,40
90		120	4,40
110		125	4,95
125		140	5,35
160		150	6,70
225		185	8,45

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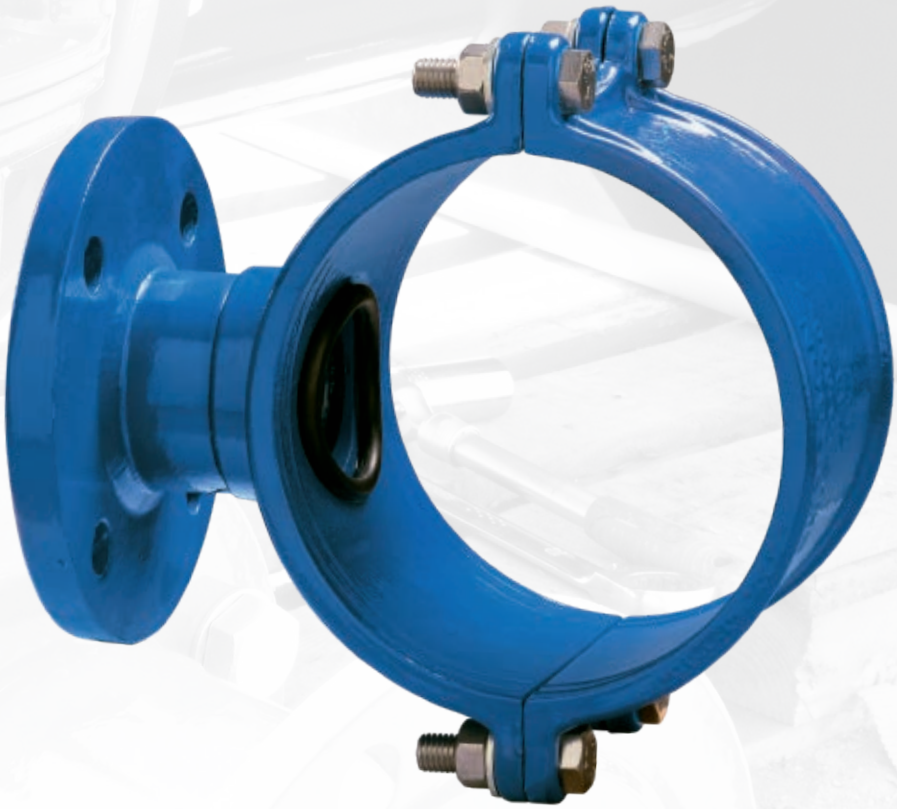
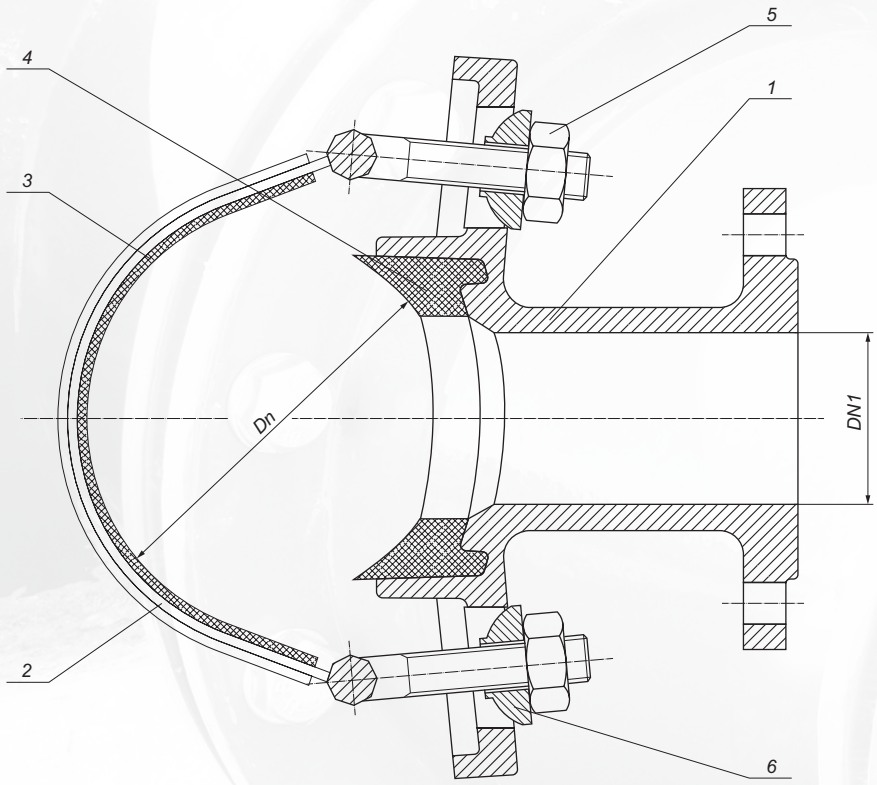
Flanged saddle NKP for PE and PVC pipes ductile iron PN 10/16



Flanged saddle NKE (for cast iron, AC, steel pipes) ductile iron PN 10/16



It is used for connecting home installations to the water supply pipelines made of cast iron, asbestos-cement and steel pipes.

Material: ductile iron EN-GJS-500-7, PN-EN 1563:2000
Flange connection: PN-EN 1092-2:1999
Coating: epoxy paint 250-360 µm
Nominal pressure: 1,0/1,6 MPa, PN 10/16

No.	Description	Pcs.	Material
1.	Body	1	EN-GJS-500-7
2.	Steel saddle	1	Stainless steel
3.	Saddle lining	1	EPDM/NBR
4.	Saddle gasket	1	EPDM/NBR
5.	Nut	2	Stainless steel A2
6.	Ball pad	2	Stainless steel

DN	Dn	DN1	Weight
65	75-83	50	4,50
80	89-104		4,70
100	107-130		4,70
125	124-144		4,70
125	148-160		4,90
150	159-178		4,90
175	179-200		5,40
200	219-238		5,60
250	248-275		6,20
250	287-307		6,30
300	315-327		6,50
300	345-373		6,60

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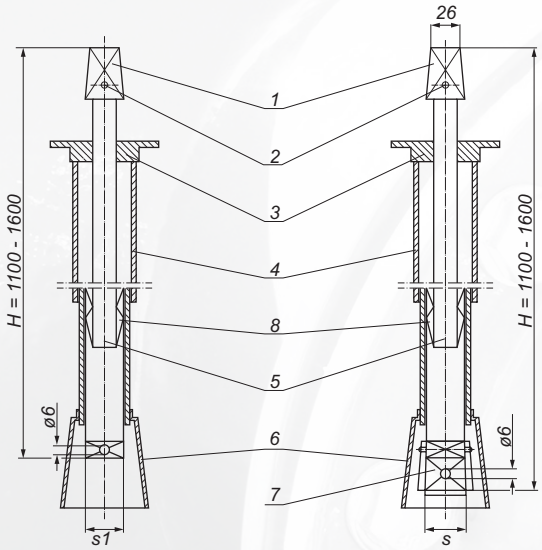
Flanged saddle NKE (for cast iron, AC, steel pipes) ductile iron PN 10/16

Telescopic spindle for valves and spotting drills



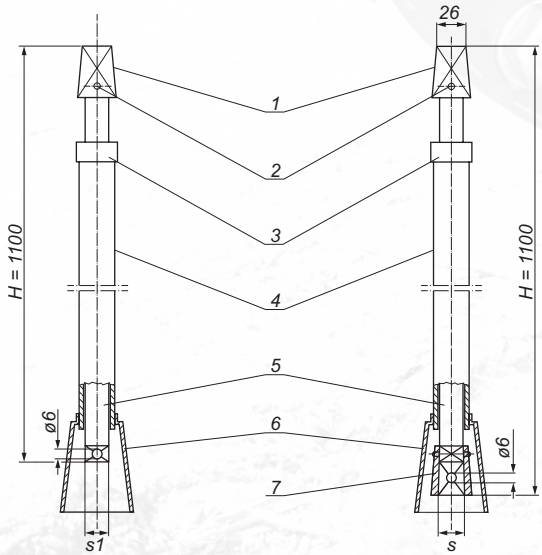
No.	Description	Material
1.	Upper cap	EN-GJL-250/EN-GJS-500-7
2.	Rivet	Steel
3.	Collar	HDPE
4.	Shield pipe	PE
5.	Telescopic rod	Steel/Galvanized steel
6.	Lower shield	HDPE
7.	Lower cap	EN-GJL-250/EN-GJS-500-7
8.	Locking clutch	St 2

Valve size (DN)	s	Lenght [mm]	Weight
20/25/32	12	1100-1600	3,50
20/25/32/40/50	14		3,70
65/80	17		3,70
100/125/150	19		3,70
200	24		4,70
250/300	27		6,70
350/400	32		7,50
PE valve	52	600-1100	2,80
Description	**s1**	**Lenght [mm]**	**Weight**
Telescopic spindle for spotting drill NS	14	1100-1600	3,20

The spindle's length can be built in according to the order.
Other dimensions „s" are according to the order.

Optionally can be made in galvanized version.

Fixed spindle for valves and spotting drills



No.	Description	Material
1.	Upper cap	EN-GJL-250/EN-GJS-500-7
2.	Rivet	Steel
3.	Collar	HDPE
4.	Shield pipe	PE
5.	Rod	Steel/Galvanized steel
6.	Lower shield	HDPE
7.	Lower cap	EN-GJL-250/EN-GJS-500-7

Valve size (DN)	s	Lenght [mm]	Weight
20/25/32	12	1100	2,90
20/25/32/40/50	14		3,10
65/80	17		3,10
100/125/150	19		3,10
200	24		4,10
250/300	27		6,10
350/400	32		6,90
PE valve	52	600	2,40
Description	**s1**	**Lenght [mm]**	**Weight**
Fixed spindle for spotting drill NS	14	1100	2,70

The spindle's length can be built in according to the order.
Other dimensions „s" are according to the order.

Optionally can be made in galvanized version.

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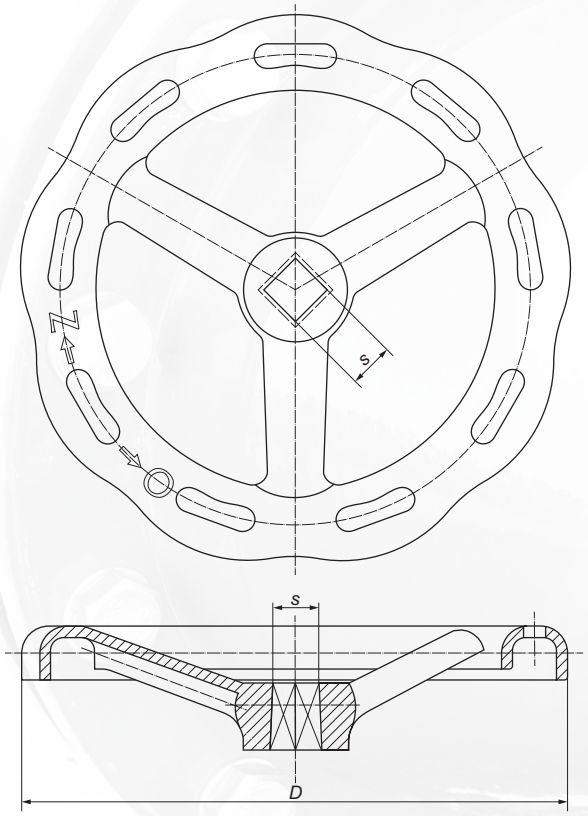
Handwheel



Handwheels are used to manually open and close the valves.

Material: aluminum AK11/steel
grey iron EN-GJL-250, PN-EN 1561:2000
ductile iron EN-GJS-500-7, PN-EN 1563:2000

Possibility of making wheels in other configurations of dimensions D / s.

Valve size (DN)	D	s	Weight
20/25/32/40/50	160/200	14	0,30/0,90
65/80	160/200	17	0,30/0,90
100/125/150	200/250	19	0,70/2,10
200	250/320	24	1,10/2,20
250/300	250/320	27	2,20/3,20

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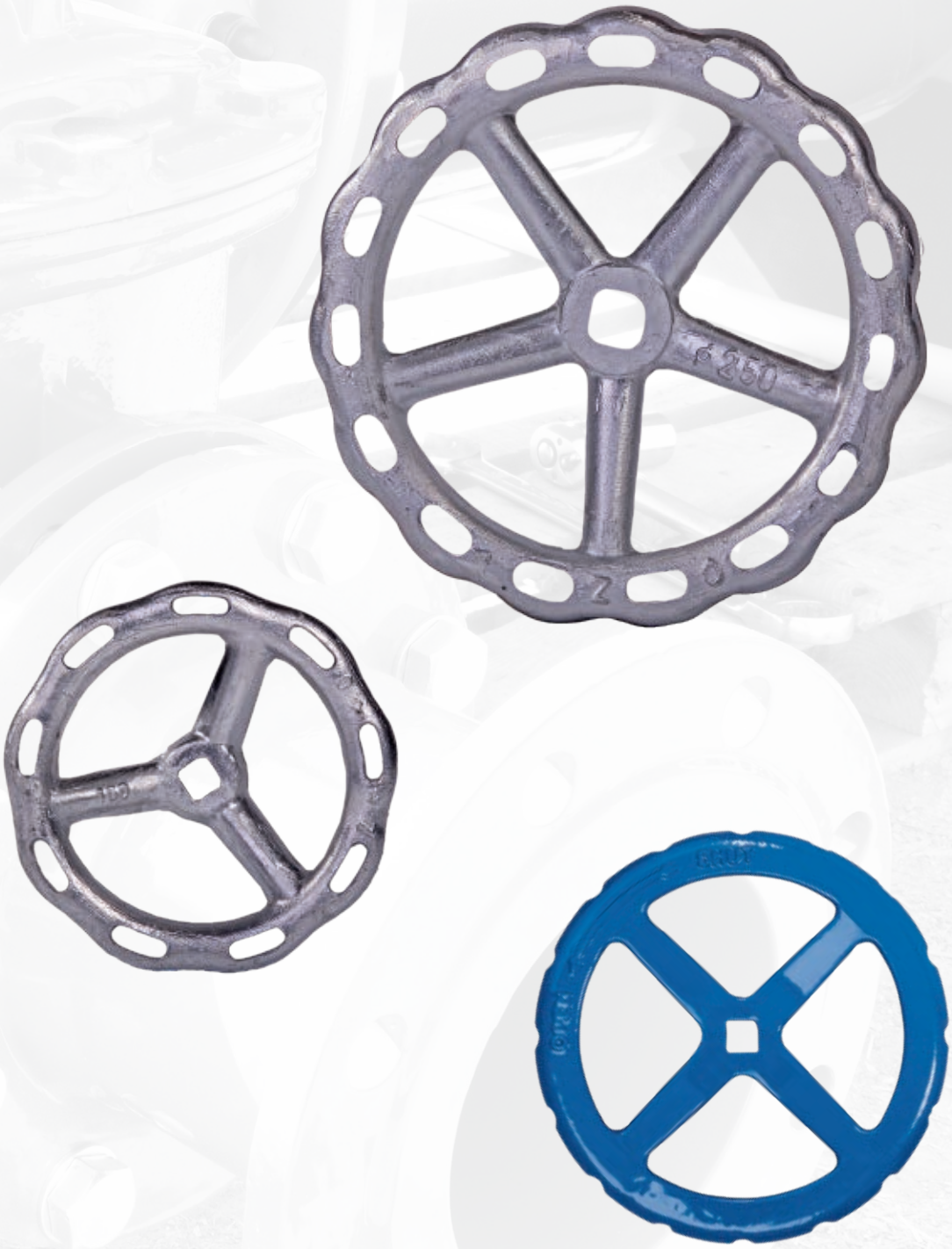
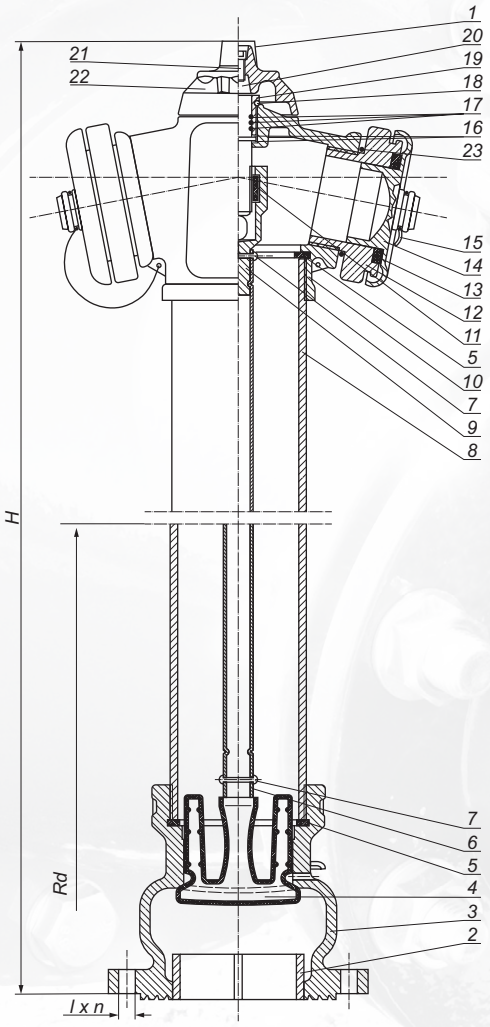


Overground hydrant DN 80
PN 10 and ductile iron PN 10/16

No.	Description	Pcs.	Material
1.	Protection cap	1	Polyethylene
2.	Spacer ring	1	EN-GJL-250/EN-GJS-500-7
3.	Chamber	1	EN-GJL-250/EN-GJS-500-7
4.	Piston	1	EN-GJS-500-7/EPDM/NBR
5.	Gasket	2	EPDM/NBR
6.	Pipe	1	Steel PN-EN 10088-3:2015 Steel PN-EN 10224:2003
7.	Rivet	2	Steel St 2/Steel C1006
8.	Pipe	1	Steel PN-EN 10088-3:2015 Steel PN-EN 10224:2003 Ductile iron PN-EN 1563:2012
9.	Nut casing	1	EN-GJS-500-7
10.	Head	1	EN-GJL-250/EN-GJS-500-7
11.	Nut	1	Brass MO59
12.	Storz coupling	2	Aluminum AK11
13.	Cover gasket	2	EPDM/NBR
14.	Cover	2	EN-GJL-250/EN-GJS-500-7/ AK11/Polyethylene
15.	Cord	1	Steel
16.	Bearing	2	Tarnamid
17.	O-ring	3	EPDM/NBR
18.	O-ring	1	EPDM/NBR
19.	Choke	1	Brass MO59
20.	Spindle	1	Stainless steel 2H13
21.	Allen screw	1	Galvanized steel 8.8 class/ Stainless steel A2
22.	Knob	1	EN-GJL-250/EN-GJS-500-7
23.	Gasket	2	EPDM/NBR



Overground hydrant with a nominal diameter of 80 mm for pressure 1,0 or 1,6 MPa with an automatic drainage device in the lower chamber.
Intended for drawing water from a general-purpose pipeline with a nominal diameter of 80 mm, water at a temperature of up to 40°C and a pressure of up to 1,0 or 1,6 MPa.

Certificate of Conformity CNBOP 1438/CPR/0143
Coating: epoxy paint UV resisted, 250-360 µm
Flange connection: PN-EN 1092-2:1999
Nominal pressure: 1,0/1,6 MPa, PN 10/16

DN	Size	H	Rd	l	n	Weight
80	A	1900	1250	18	8	33,00
	B	2150	1500	18	8	36,00
	C	2450	1800	18	8	38,00
	X	as per order				

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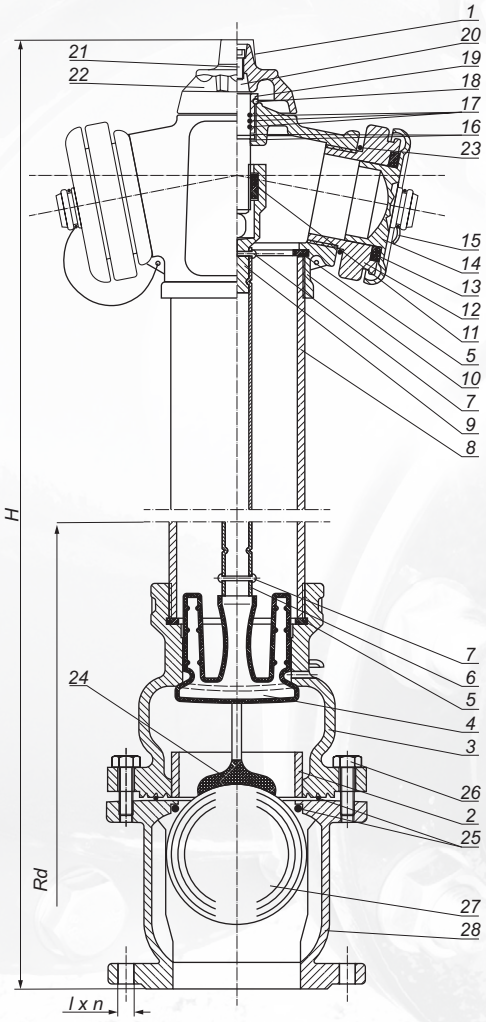
Overground hydrant DN 80 PN 10 and ductile iron PN 10/16

Overground hydrant double protected DN 80 PN 10 and ductile iron PN 10/16

No.	Description	Pcs.	Material
1.	Protection cap	1	Polyethylene
2.	Spacer ring	1	EN-GJL-250/EN-GJS-500-7
3.	Chamber	1	EN-GJL-250/EN-GJS-500-7
4.	Piston	1	EN-GJS-500-7/EPDM/NBR
5.	Gasket	2	EPDM/NBR
6.	Pipe	1	Steel PN-EN 10088-3:2015 Steel PN-EN 10224:2003
7.	Rivet	2	Steel St 2/Steel C1006
8.	Pipe	1	Steel PN-EN 10088-3:2015 Steel PN-EN 10224:2003 Ductile iron PN-EN 1563:2012
9.	Nut casing	1	EN-GJS-500-7
10.	Head	1	EN-GJL-250/EN-GJS-500-7
11.	Nut	1	Brass MO59
12.	Storz coupling	2	Aluminum AK11
13.	Cover gasket	2	EPDM/NBR
14.	Cover	2	EN-GJL-250/EN-GJS-500-7/ AK11/Polyethylene
15.	Cord	1	Steel
16.	Bearing	2	Tarnamid
17.	O-ring	3	EPDM/NBR
18.	O-ring	1	EPDM/NBR
19.	Choke	1	Brass MO59
20.	Spindle	1	Stainless steel 2H13
21.	Allen screw	1	Galvanized steel 8.8 class/ Stainless steel A2
22.	Knob	1	EN-GJL-250/EN-GJS-500-7
23.	Storz coupling gasket	2	EPDM/NBR
24.	Ball pusher	1	Stainless steel 2H13
25.	O-ring	2	EPDM/NBR
26.	Screw and pad	4	Galvanized steel 8.8 class/ Stainless steel A2
27.	Ball	1	EPDM/NBR
28.	Ball chamber	1	EN-GJS-500-7



Overground hydrant double protected with a nominal diameter of 80 mm for pressure 1,0 or 1,6 MPa with an automatic drainage device in the lower chamber. Intended for drawing water from a general-purpose pipeline with a nominal diameter of 80 mm, water at a temperature of up to 40°C and a pressure of up to 1,0 or 1,6 MPa. Equipped with a ball protection.

Certificate of Conformity CNBOP 1438/CPR/0143

Coating: epoxy paint UV resisted, 250-360 µm
Flange connection: PN-EN 1092-2:1999
Nominal pressure: 1,0/1,6 MPa, PN 10/16

DN	Size	H	Rd	l	n	Weight
80	A	1900	1250	18	8	39,00
	B	2150	1500	18	8	42,00
	C	2450	1800	18	8	44,00
	X	as per order				

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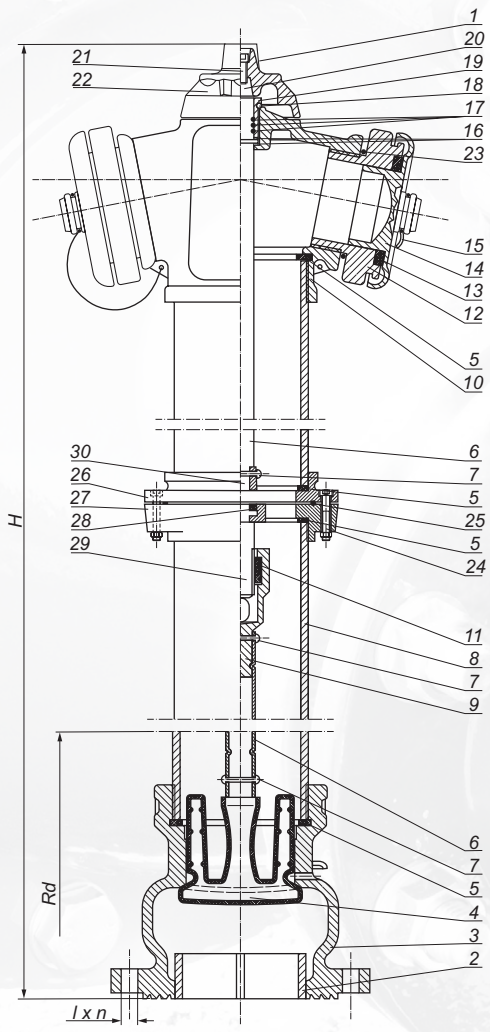
Overground hydrant double protected DN 80 PN 10 and ductile iron PN 10/16

Overground hydrant breakable DN 80 PN 10 and ductile iron PN 10/16

No.	Description	Pcs.	Material
1.	Protection cap	1	Polyethylene
2.	Spacer ring	1	EN-GJL-250/EN-GJS-500-7
3.	Chamber	1	EN-GJL-250/EN-GJS-500-7
4.	Piston	1	EN-GJS-500-7/EPDM/NBR
5.	Gasket	4	EPDM/NBR
6.	Pipe	1	Steel PN-EN 10088-3:2015 Steel PN-EN 10224:2003
7.	Rivet	3	Steel St 2/Steel C1006
8.	Pipe	1	Steel PN-EN 10088-3:2015 Steel PN-EN 10224:2003 Ductile iron PN-EN 1563:2012
9.	Nut casing	1	EN-GJS-500-7
10.	Head	1	EN-GJL-250/EN-GJS-500-7
11.	Nut	1	Brass MO59
12.	Storz coupling	2	Aluminum AK11
13.	Cap gasket	2	EPDM/NBR
14.	Cap	2	EN-GJL-250/EN-GJS-500-7/ AK11/Polyethylene
15.	Cord	1	Steel
16.	Bearing	2	Tarnamid
17.	O-ring	3	EPDM/NBR
18.	O-ring	1	EPDM/NBR
19.	Choke	1	Brass MO59
20.	Spindle	1	Stainless steel 2H13
21.	Allen screw	1	Galvanized steel 8.8 class/ Stainless steel A2
22.	Knob	1	EN-GJL-250/EN-GJS-500-7
23.	Storz coupling gasket	2	EPDM/NBR
24.	Screw, pad, nut	4	Galvanized steel 8.8 class/ Stainless steel A2
25.	O-ring	1	EPDM/NBR
26.	Upper flange	1	EN-GJS-500-7
27.	Lower flange	1	EN-GJS-500-7
28.	Middle spindle nut	1	Stainless steel 2H13/ Brass MO59
29.	Middle spindle	1	Stainless steel 2H13
30.	Clutch	1	EN-GJL-250/EN-GJS-500-7



Overground hydrant breakable with a nominal diameter of 80 mm for pressure 1,0 or 1,6 MPa with an automatic drainage device in the lower chamber.
Intended for drawing water from a general-purpose pipeline with a nominal diameter of 80 mm, water at a temperature of up to 40°C and a pressure of up to 1,0 or 1,6 MPa.

Certificate of Conformity CNBOP 1438/CPR/0478
Coating: epoxy paint UV resisted, 250-360 µm
Flange connection: PN-EN 1092-2:1999
Nominal pressure: 1,0/1,6 MPa, PN 10/16

DN	Size	H	Rd	l	n	Weight
80	A	1900	1250	18	8	37,00
	B	2150	1500	18	8	40,00
	C	2450	1800	18	8	42,00
	X	as per order				

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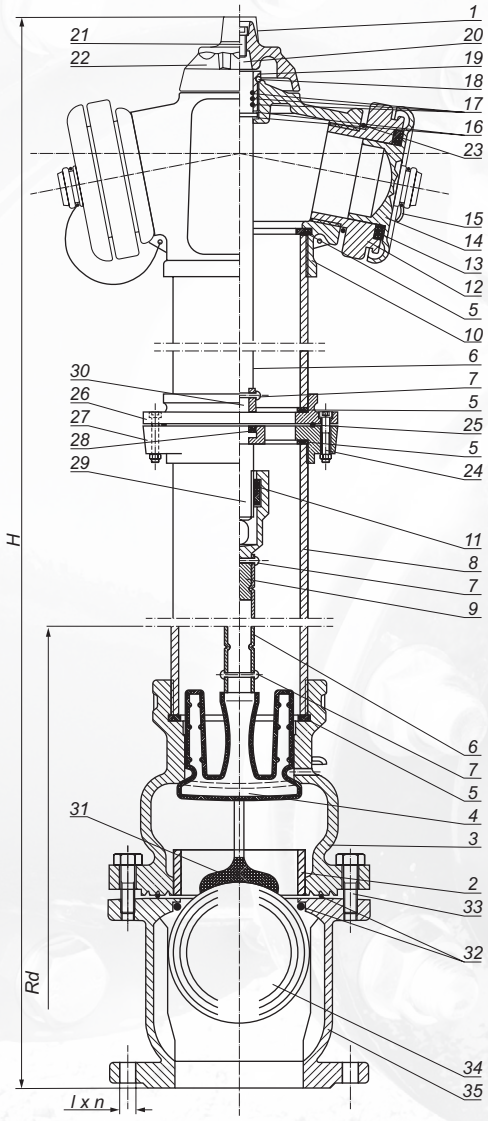
Overground hydrant breakable DN 80 PN 10 and ductile iron PN 10/16

Overground hydrant double protected; breakable DN 80 PN 10 and ductile iron PN 10/16

No.	Description	Pcs.	Material
1.	Protection cap	1	Polyethylene
2.	Spacer ring	1	EN-GJL-250/EN-GJS-500-7
3.	Chamber	1	EN-GJL-250/EN-GJS-500-7
4.	Piston	1	EN-GJS-500-7/EPDM/NBR
5.	Gasket	4	EPDM/NBR
6.	Pipe	1	Steel PN-EN 10088-3:2015 Steel PN-EN 10224:2003
7.	Rivet	3	Steel St 2/Steel C1006
8.	Pipe	1	Steel PN-EN 10088-3:2015 Steel PN-EN 10224:2003 Ductile iron PN-EN 1563:2012
9.	Nut casing	1	EN-GJS-500-7
10.	Head	1	EN-GJL-250/EN-GJS-500-7
11.	Nut	1	Brass MO59
12.	Storz coupling	2	Aluminum AK11
13.	Cover gasket	2	EPDM/NBR
14.	Cover	2	EN-GJL-250/EN-GJS-500-7/ AK11/Polyethylene
15.	Cord	1	Steel
16.	Bearing	2	Tarnamid
17.	O-ring	3	EPDM/NBR
18.	O-ring	1	EPDM/NBR
19.	Choke	1	Brass MO59
20.	Spindle	1	Stainless steel 2H13
21.	Allen screw	1	Galvanized steel 8.8 class/ Stainless steel A2
22.	Knob	1	EN-GJL-250/EN-GJS-500-7
23.	Storz coupling gasket	2	EPDM/NBR
24.	Screw, pad, nut	4	Galvanized steel 8.8 class/ Stainless steel A2
25.	O-ring	1	EPDM/NBR
26.	Upper flange	1	EN-GJS-500-7
27.	Lower flange	1	EN-GJS-500-7
28.	Middle spindle nut	1	Stainless steel 2H13/ Brass MO59
29.	Middle spindle	1	Stainless steel 2H13
30.	Clutch	1	EN-GJL-250/EN-GJS-500-7
31.	Ball pusher	1	Stainless steel 2H13
32.	O-ring	2	EPDM/NBR
33.	Screw, pad	4	Galvanized steel 8.8 class/ Stainless steel A2
34.	Ball	1	EPDM/NBR
35.	Ball chamber	1	EN-GJS-500-7



Overground hydrant - double protected; breakable with a nominal diameter of 80 mm for pressure 1,0 or 1,6 MPa with an automatic drainage device in the lower chamber. Intended for drawing water from a general-purpose pipeline with a nominal diameter of 80 mm, water at a temperature of up to 40°C and a pressure of up to 1,0 or 1,6 MPa. Equipped with a ball protection.

Certificate of Conformity CNBOP 1438/CPR/0478

Coating: epoxy paint UV resisted, 250-360 µm
Flange connection: PN-EN 1092-2:1999
Nominal pressure: 1,0/1,6 MPa, PN 10/16

DN	Size	H	Rd	l	n	Weight
80	A	1900	1250	18	8	43,00
	B	2150	1500	18	8	46,00
	C	2450	1800	18	8	48,00
	X	as per order				

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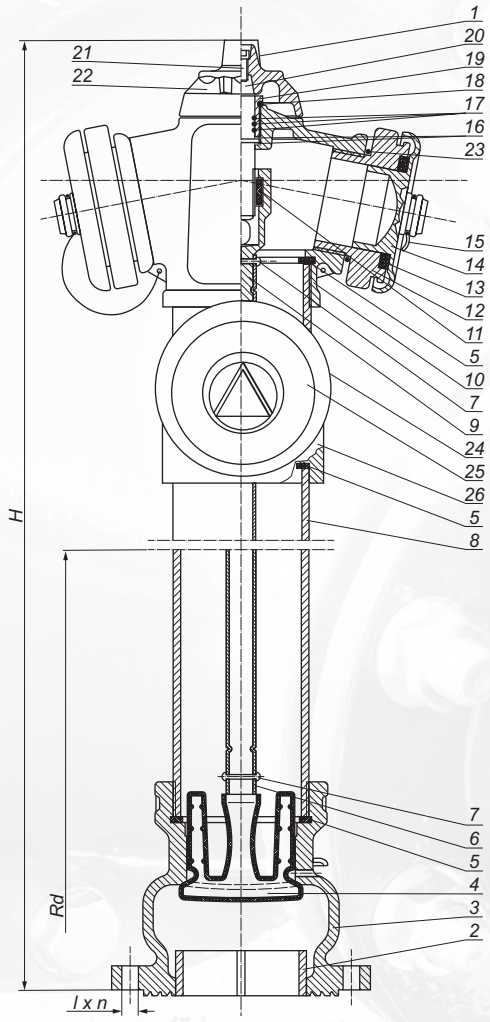
Overground hydrant double protected; breakable DN 80 PN 10 and ductile iron PN 10/16

Overground hydrant DN 100
PN 10 and ductile iron PN 10/16

No.	Description	Pcs.	Material
1.	Blank cover	1	Polyethylene
2.	Ring	1	EN-GJL-250/EN-GJS-500-7
3.	Chamber	1	EN-GJL-250/EN-GJS-500-7
4.	Piston	1	EN-GJS-500-7/EPDM/NBR
5.	Gasket	3	EPDM/NBR
6.	Pipe	1	Steel PN-EN 10088-3:2015 Steel PN-EN 10224:2003
7.	Rivet	2	Steel St 2/Steel C1006
8.	Pipe	1	Steel PN-EN 10088-3:2015 Steel PN-EN 10224:2003 Ductile iron PN-EN 1563:2012
9.	Nut's casing	1	EN-GJS-500-7
10.	Head	1	EN-GJL-250/EN-GJS-500-7
11.	Nut	1	Brass MO59
12.	Cap	2	Aluminium AK11
13.	Cover gasket	2	EPDM/NBR
14.	Cover	2	EN-GJL-250/EN-GJS-500-7/ AK11/Polyethylene
15.	Cord	1	Steel
16.	Bearing	2	Tarnamid
17.	O-ring	3	EPDM/NBR
18.	O-ring	1	EPDM/NBR
19.	Choke	1	Brass MO59
20.	Spindle	1	Stainless steel 2H13
21.	Allen screw	1	Galvanized steel 8.8 class/ Stainless steel A2
22.	Knob	1	EN-GJL-250/EN-GJS-500-7
23.	Cap gasket	2	EPDM/NBR
24.	Cap DN 100	1	Aluminium AK11
25.	Cap cover DN 100	1	EN-GJL-250/EN-GJS-500-7/ AK11/Polyethylene
26.	Reducer	1	EN-GJS-500-7



Overground hydrant DN 100 with an automatic drainage in the lower chamber, designed for drawing water from a general purpose pipeline of nominal diameter 100 mm, water with a temperature of up to 40°C and a pressure of 1,0 or 1,6 MPa.

Certificate of conformity CNBOP 1438/CPR/0521

Coating: epoxy paint UV resisted, 250-360 µm
Flange connection: PN-EN 1092-2:1999
Nominal pressure: 1,0/1,6 MPa, PN 10/16

DN	Size	H	Rd	l	n	Weight
100	A	1900	1250	18	8	39,00
	B	2150	1500	18	8	42,00
	C	2450	1800	18	8	44,00
	X	as per order				

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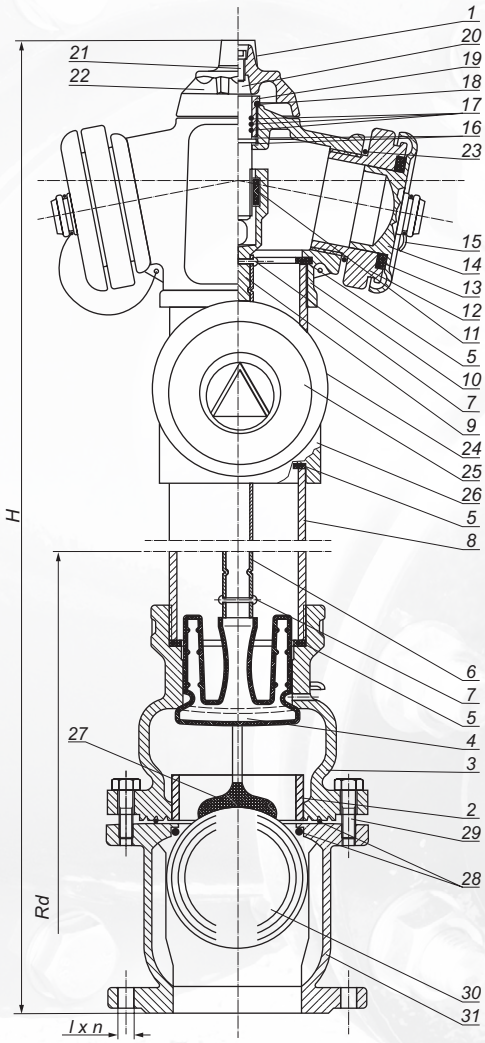
Overground hydrant DN 100 PN 10 and ductile iron PN 10/16

Overground hydrant double protected DN 100 PN 10 and ductile iron PN 10/16

No.	Description	Pcs.	Material
1.	Protection cap	1	Polyethylene
2.	Spacer ring	1	EN-GJL-250/EN-GJS-500-7
3.	Chamber	1	EN-GJL-250/EN-GJS-500-7
4.	Piston	1	EN-GJS-500-7/EPDM/NBR
5.	Gasket	3	EPDM/NBR
6.	Pipe	1	Steel PN-EN 10088-3:2015 Steel PN-EN 10224:2003
7.	Rivet	2	Steel St 2/Steel C1006
8.	Pipe	1	Steel PN-EN 10088-3:2015 Steel PN-EN 10224:2003 Ductile iron PN-EN 1563:2012
9.	Nut casing	1	EN-GJS-500-7
10.	Head	1	EN-GJL-250/EN-GJS-500-7
11.	Nut	1	Brass MO59
12.	Storz coupling	2	Aluminum AK11
13.	Cover gasket	2	EPDM/NBR
14.	Cover	2	EN-GJL-250/EN-GJS-500-7/ AK11/Polyethylene
15.	Cord	1	Steel
16.	Bearing	2	Tarnamid
17.	O-ring	3	EPDM/NBR
18.	O-ring	1	EPDM/NBR
19.	Choke	1	Brass MO59
20.	Spindle	1	Stainless steel 2H13
21.	Allen screw	1	Galvanized steel 8.8 class/ Stainless steel A2
22.	Knob	1	EN-GJL-250/EN-GJS-500-7
23.	Storz coupling gasket	2	EPDM/NBR
24.	Storz coupling DN 100	1	Aluminum AK11
25.	Storz coupling cover DN 100	1	EN-GJL-250/EN-GJS-500-7/ AK11/Polyethylene
26.	Reducer	1	EN-GJS-500-7
27.	Ball pusher	1	Stainless steel 2H13
28.	O-ring	2	EPDM/NBR
29.	Screw, pad	4	Galvanized steel 8.8 class/ Stainless steel A2
30.	Ball	1	EPDM/NBR
31.	Ball chamber	1	EN-GJS-500-7



Overground hydrant double protected with a nominal diameter of 100 mm for pressure 1,0 or 1,6 MPa with an automatic drainage device in the lower chamber. Intended for drawing water from a general-purpose pipeline with a nominal diameter of 100 mm, water at a temperature of up to 40°C and a pressure of up to 1,0 or 1,6 MPa. Equipped with a ball protection.

Coating: epoxy paint UV resisted, 250-360 µm
Flange connection: PN-EN 1092-2:1999
Nominal pressure: 1,0/1,6 MPa, PN 10/16

DN	Size	H	Rd	l	n	Weight
100	A	1900	1250	18	8	47,00
	B	2150	1500	18	8	50,00
	C	2450	1800	18	8	52,00
	X	as per order				

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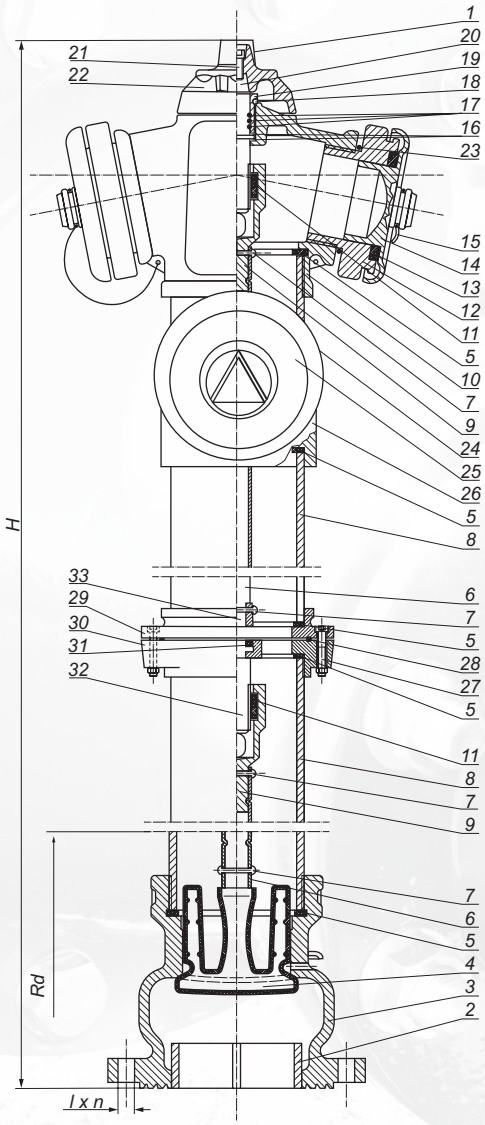
Overground hydrant double protected DN 100 PN 10 and ductile iron PN 10/16

Overground hydrant breakable DN 100 PN 10 and ductile iron PN 10/16

No.	Description	Pcs.	Material
1.	Protection cap	1	Polyethylene
2.	Spacer ring	1	EN-GJL-250/EN-GJS-500-7
3.	Chamber	1	EN-GJL-250/EN-GJS-500-7
4.	Piston	1	EN-GJS-500-7/EPDM/NBR
5.	Gasket	3	EPDM/NBR
6.	Pipe	1	Steel PN-EN 10088-3:2015 Steel PN-EN 10224:2003
7.	Rivet	2	Steel St 2/Steel C1006
8.	Pipe	1	Steel PN-EN 10088-3:2015 Steel PN-EN 10224:2003 Ductile iron PN-EN 1563:2012
9.	Nut casing	1	EN-GJS-500-7
10.	Head	1	EN-GJL-250/EN-GJS-500-7
11.	Nut	1	Brass MO59
12.	Stporz coupling	2	Aluminum AK11
13.	Cover gasket	2	EPDM/NBR
14.	Cover	2	EN-GJL-250/EN-GJS-500-7/ AK11/Polyethylene
15.	Cord	1	Steel
16.	Bearing	2	Tarnamid
17.	O-ring	3	EPDM/NBR
18.	O-ring	1	EPDM/NBR
19.	Choke	1	Brass MO59
20.	Spindle	1	Stainless steel 2H13
21.	Allen screw	1	Galvanized steel 8.8 class/ Stainless steel A2
22.	Knob	1	EN-GJL-250/EN-GJS-500-7
23.	Storz coupling gasket	2	EPDM/NBR
24.	Storz coupling DN 100	1	Aluminum AK11
25.	Storz coupling gasket DN 100	1	EN-GJL-250/EN-GJS-500-7/ AK11/Polyethylene
26.	Reducer	1	EN-GJS-500-7
27.	Screw, pad, nut	4	Galvanized steel 8.8 class/ Stainless steel A2
28.	O-ring	1	EPDM/NBR
29.	Upper flange	1	EN-GJS-500-7
30.	Lower flange	1	EN-GJS-500-7
31.	Middle spindle nut	1	Stainless steel 2H13/ Brass MO59
32.	Middle spindle	1	Stainless steel 2H13
33.	Clutch	1	EN-GJL-250/EN-GJS-500-7



Overground hydrant breakable with a nominal diameter of 100 mm for pressure 1,0 or 1,6 MPa with an automatic drainage device in the lower chamber. Intended for drawing water from a general-purpose pipeline with a nominal diameter of 100 mm, water at a temperature of up to 40°C and a pressure of up to 1,0 or 1,6 MPa.

Certificate of Conformity CNBOP 1438/CPR/0522

Coating: epoxy paint UV resisted, 250-360 µm
Flange connection: PN-EN 1092-2:1999
Nominal pressure: 1,0/1,6 MPa, PN 10/16

DN	Size	H	Rd	l	n	Weight
100	A	1900	1250	18	8	43,00
	B	2150	1500	18	8	46,00
	C	2450	1800	18	8	48,00
	X	as per order				

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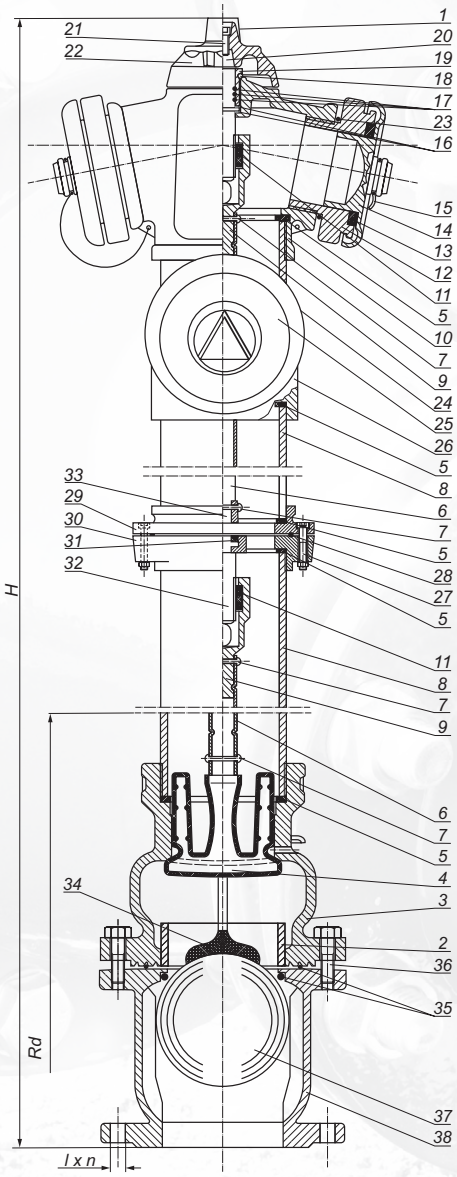
Overground hydrant breakable DN 100 PN 10 and ductile iron PN 10/16

Overground hydrant double protected, breakable DN 100 PN 10 and ductile iron PN 10/16

No.	Description	Pcs.	Material
1.	Protection cap	1	Polyethylene
2.	Spacer ring	1	EN-GJL-250/EN-GJS-500-7
3.	Chamber	1	EN-GJL-250/EN-GJS-500-7
4.	Piston	1	EN-GJS-500-7/EPDM/NBR
5.	Gasket	3	EPDM/NBR
6.	Pipe	1	Steel PN-EN 10088-3:2015 Steel PN-EN 10224:2003
7.	Rivet	2	Steel St 2/Steel C1006
8.	Pipe	1	Steel PN-EN 10088-3:2015 Steel PN-EN 10224:2003 Ductile iron PN-EN 1563:2012
9.	Nut casing	1	EN-GJS-500-7
10.	Head	1	EN-GJL-250/EN-GJS-500-7
11.	Nut	1	Brass MO59
12.	Stporz coupling	2	Aluminum AK11
13.	Cover gasket	2	EPDM/NBR
14.	Cover	2	EN-GJL-250/EN-GJS-500-7/ AK11/Polyethylene
15.	Cord	1	Steel
16.	Bearing	2	Tarnamid
17.	O-ring	3	EPDM/NBR
18.	O-ring	1	EPDM/NBR
19.	Choke	1	Brass MO59
20.	Spindle	1	Stainless steel 2H13
21.	Allen screw	1	Galvanized steel 8.8 class/ Stainless steel A2
22.	Knob	1	EN-GJL-250/EN-GJS-500-7
23.	Storz coupling gasket	2	EPDM/NBR
24.	Storz coupling DN 100	1	Aluminum AK11
25.	Storz coupling gasket DN 100	1	EN-GJL-250/EN-GJS-500-7/ AK11/Polyethylene
26.	Reducer	1	EN-GJS-500-7
27.	Screw, pad, nut	4	Galvanized steel 8.8 class/ Stainless steel A2
28.	O-ring	1	EPDM/NBR
29.	Upper flange	1	EN-GJS-500-7
30.	Lower flange	1	EN-GJS-500-7
31.	Middle spindle nut	1	Stainless steel 2H13/ Brass MO59
32.	Middle spindle	1	Stainless steel 2H13
33.	Clutch	1	EN-GJL-250/EN-GJS-500-7
34.	Ball pusher	1	Stainless steel 2H13
35.	O-ring	2	EPDM/NBR
36.	Screw, pad	4	Galvanized steel 8.8 class/ Stainless steel A2
37.	Ball	1	EPDM/NBR
38.	Ball chamber	1	EN-GJS-500-7

Coating: epoxy paint UV resisted, 250-360 µm
Flange connection: PN-EN 1092-2:1999
Nominal pressure: 1,0/1,6 MPa, PN 10/16



Overground hydrant - double protected; breakable with a nominal diameter of 100 mm for pressure 1,0 or 1,6 MPa with an automatic drainage device in the lower chamber. Intended for drawing water from a general-purpose pipeline with a nominal diameter of 100 mm, water at a temperature of up to 40°C and a pressure of up to 1,0 or 1,6 MPa. Equipped with a ball protection.

DN	Size	H	Rd	l	n	Weight
100	A	1900	1250	18	8	51,00
	B	2150	1500	18	8	54,00
	C	2450	1800	18	8	56,00
	X	as per order				

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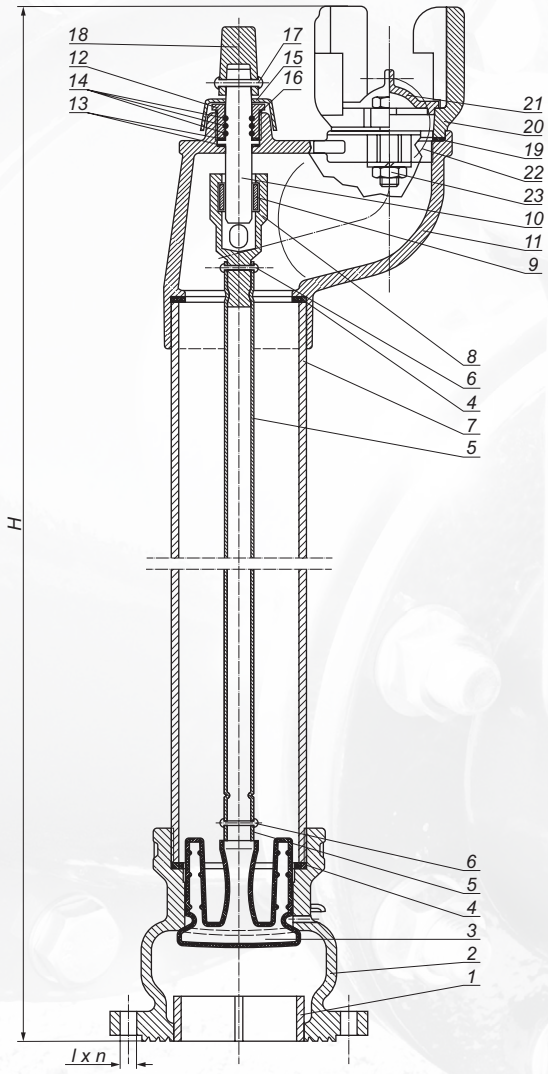
Overground hydrant double protected, breakable DN 100 PN 10 and ductile iron PN 10/16

Underground hydrant DN 80
PN 10 and ductile iron PN 10/16

No.	Description	Pcs.	Material
1.	Spacer ring	1	EN-GJL-250/EN-GJS-500-7
2.	Chamber	1	EN-GJL-250/EN-GJS-500-7
3.	Piston	1	EN-GJS-500-7/EPDM/NBR
4.	Gasket	2	EPDM/NBR
5.	Pipe	1	Steel PN-EN 10088-3:2015 Steel PN-EN 10224:2003
6.	Rivet	2	Steel St 2/Steel C1006
7.	Pipe	1	Steel PN-EN 10088-3:2015 Steel PN-EN 10224:2003 Ductile iron PN-EN 1563:2012
8.	Nut casing	1	EN-GJS-500-7
9.	Nut	1	Brass MO59
10.	Spindle	1	Stainless steel 2H13
11.	Head	1	EN-GJL-250/EN-GJS-500-7
12.	Choke	1	Brass MO59
13.	Bearing	2	Tarnamid
14.	O-ring	3	EPDM/NBR
15.	Protection ring	1	EPDM/NBR
16.	O-ring	1	EPDM/NBR
17.	Rivet	1	Steel St 2
18.	Knob	1	EN-GJL-250/EN-GJS-500-7
19.	Gasket	1	EPDM/NBR
20.	Hook	1	EN-GJS-500-7
21.	Protection cap	1	EPDM/NBR
22.	Cord	1	Steel
23.	Screw, pad, nut	2	Galvanized steel 8.8 class/ Stainless steel A2



Underground hydrant with a nominal diameter of 80 mm for pressure 1,0 or 1,6 MPa with an automatic drainage device in the lower chamber.
Intended for drawing water from a general-purpose pipeline with a nominal diameter of 80 mm, water at a temperature of up to 40°C and a pressure of up to 1,0 or 1,6 MPa.

Certificate of Conformity CNBOP 1438/CPR/0144

Coating: epoxy paint UV resisted, 250-360 µm
Flange connection: PN-EN 1092-2:1999
Nominal pressure: 1,0/1,6 MPa, PN 10/16

DN	Size	H	Rd	l	n	Weight
80	A	750	1000	18	8	24,00
	B	1000	1250	18	8	26,50
	C	1250	1500	18	8	29,00
	X	as per order				

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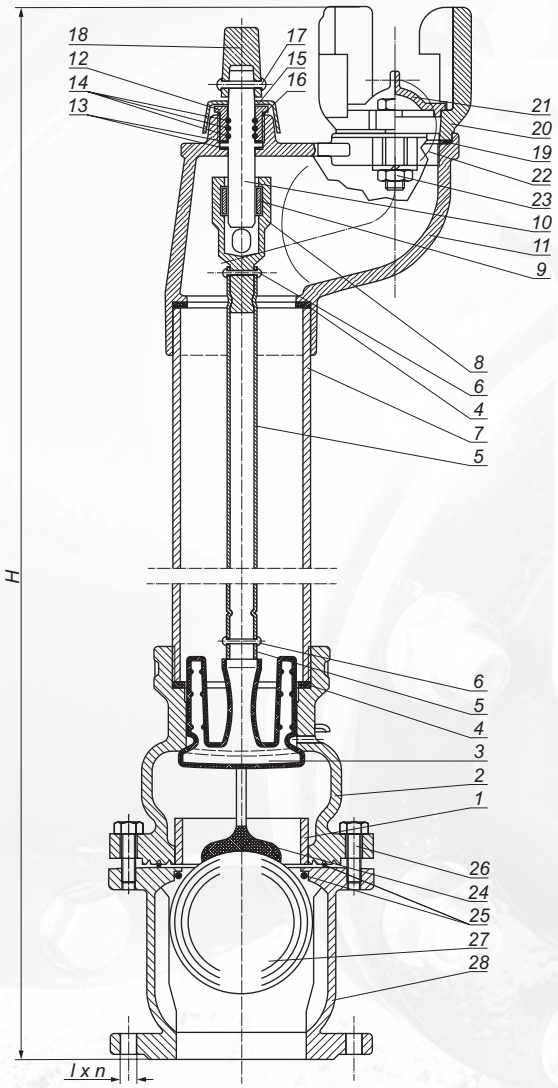
Underground hydrant DN 80
PN 10 and ductile iron PN 10/16

Underground hydrant double protected DN 80 PN 10 and ductile iron PN 10/16

No.	Description	Pcs.	Material
1.	Spacer ring	1	EN-GJL-250/EN-GJS-500-7
2.	Chamber	1	EN-GJL-250/EN-GJS-500-7
3.	Piston	1	EN-GJS-500-7/EPDM/NBR
4.	Gasket	2	EPDM/NBR
5.	Pipe	1	Steel PN-EN 10088-3:2015 Steel PN-EN 10224:2003
6.	Rivet	2	Steel St 2/Steel C1006
7.	Pipe	1	Steel PN-EN 10088-3:2015 Steel PN-EN 10224:2003 Ductile iron PN-EN 1563:2012
8.	Nut casing	1	EN-GJS-500-7
9.	Nut	1	Brass MO59
10.	Spindle	1	Stainless steel 2H13
11.	Head	1	EN-GJL-250/EN-GJS-500-7
12.	Choke	1	Brass MO59
13.	Bearing	2	Tarnamid, steel
14.	O-ring	3	EPDM/NBR
15.	Protection ring	1	EPDM/NBR
16.	O-ring	1	EPDM/NBR
17.	Rivet	1	Steel St 2
18.	Knob	1	EN-GJL-250/EN-GJS-500-7
19.	Gasket	1	EPDM/NBR
20.	Hook	1	EN-GJS-500-7
21.	Protection cap	1	EPDM/NBR
22.	Cord	1	Steel
23.	Screw, pad, nut	2	Galvanized steel 8.8 class/ Stainless steel A2/A4
24.	Ball pusher	1	Stainless steel 2H13
25.	O-ring	2	EPDM/NBR
26.	Screw, pad	4	Galvanized steel 8.8 class/ Stainless steel A2
27.	Ball	1	EPDM/NBR
28.	Ball chamber	1	EN-GJS-500-7



Underground hydrant double protected with a nominal diameter of 80 mm for pressure 1,0 or 1,6 MPa with an automatic drainage device in the lower chamber. Intended for drawing water from a general-purpose pipeline with a nominal diameter of 80 mm, water at a temperature of up to 40°C and a pressure of up to 1,0 or 1,6 MPa. Equipped with a ball protection.

Certificate of Conformity CNBOP 1438/CPR/0144

Coating: epoxy paint UV resisted, 250-360 µm
Flange connection: PN-EN 1092-2:1999
Nominal pressure: 1,0/1,6 MPa, PN 10/16

DN	Size	H	Rd	l	n	Weight
80	A	750	1000	18	8	30,00
	B	1000	1250	18	8	32,50
	C	1250	1500	18	8	35,00
	X	as per order				

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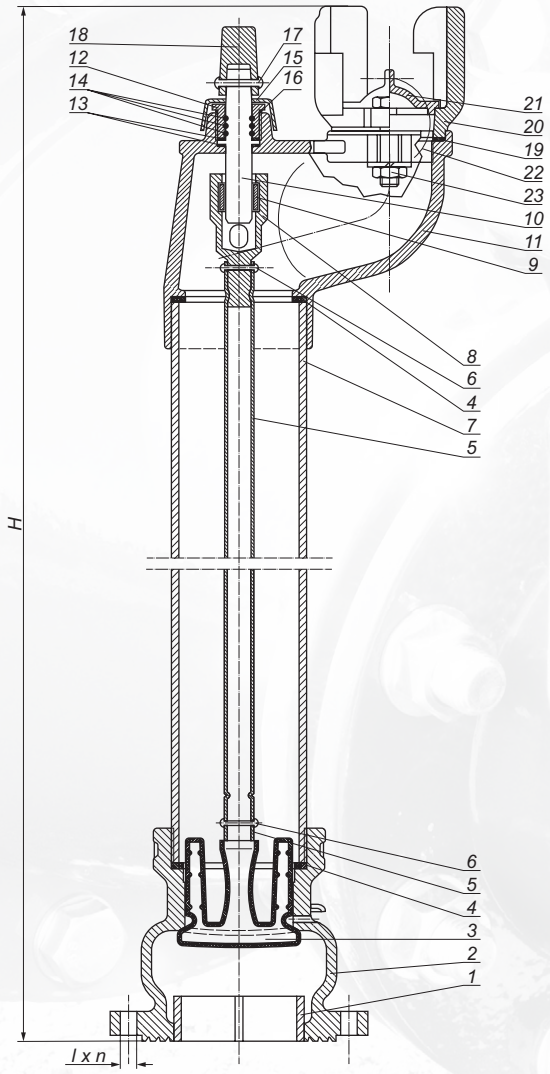
Underground hydrant double protected DN 80 PN 10 and ductile iron PN 10/16

Underground hydrant DN 100
PN 10 and ductile iron PN 10/16

No.	Description	Pcs.	Material
1.	Spacer ring	1	EN-GJL-250/EN-GJS-500-7
2.	Chamber	1	EN-GJL-250/EN-GJS-500-7
3.	Piston	1	EN-GJS-500-7/EPDM/NBR
4.	Gasket	2	EPDM/NBR
5.	Pipe	1	Steel PN-EN 10088-3:2015 Steel PN-EN 10224:2003
6.	Rivet	2	Steel St 2/Steel C1006
7.	Pipe	1	Steel PN-EN 10088-3:2015 Steel PN-EN 10224:2003 Ductile iron PN-EN 1563:2012
8.	Nut casing	1	EN-GJS-500-7
9.	Nut	1	Brass MO59
10.	Spindle	1	Stainless steel 2H13
11.	Head	1	EN-GJL-250/EN-GJS-500-7
12.	Choke	1	Brass MO59
13.	Bearing	2	Tarnamid
14.	O-ring	3	EPDM/NBR
15.	Protection ring	1	EPDM/NBR
16.	O-ring	1	EPDM/NBR
17.	Rivet	1	Steel St 2
18.	Knob	1	EN-GJL-250/EN-GJS-500-7
19.	Gasket	1	EPDM/NBR
20.	Standpipe hook	1	EN-GJS-500-7
21.	Protection cap	1	EPDM/NBR
22.	Cord	1	Steel
23.	Screw, pad, nut	2	Galvanized steel 8.8 class/ Stainless steel A2/A4



Underground hydrant with a nominal diameter of 100 mm for pressure 1,0 or 1,6 MPa with an automatic drainage device in the lower chamber. Intended for drawing water from a general-purpose pipeline with a nominal diameter of 100 mm, water at a temperature of up to 40°C and a pressure of up to 1,0 or 1,6 MPa.

Certificate of Conformity CNBOP 1438/CPR/0595

Coating: epoxy paint UV resisted, 250-360 µm
Flange connection: PN-EN 1092-2:1999
Nominal pressure: 1,0/1,6 MPa, PN 10/16

DN	Size	H	Rd	l	n	Weight
100	A	750	1000	18	8	31,00
	B	1000	1250	18	8	33,50
	C	1250	1500	18	8	36,00
	X	as per order				

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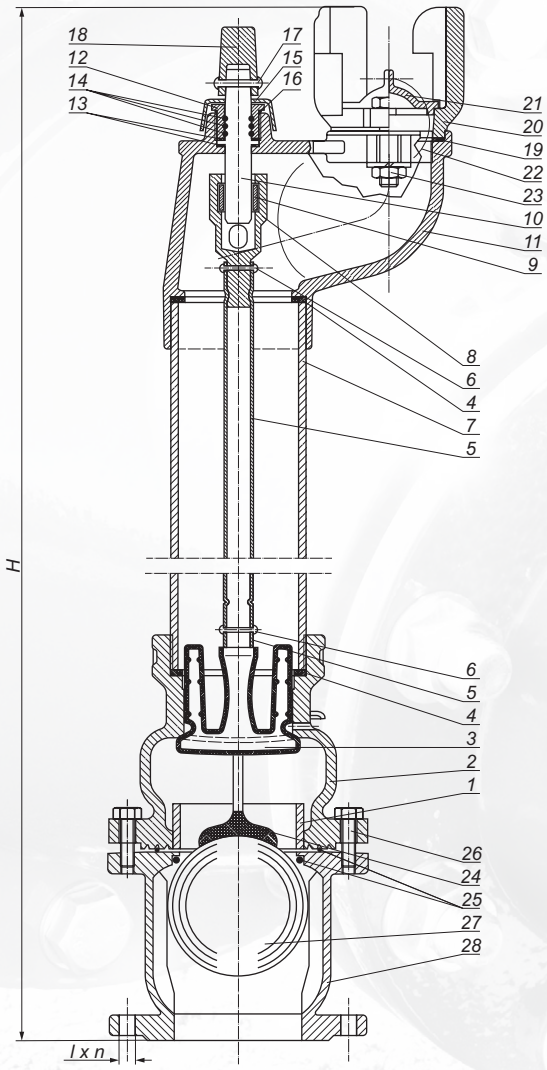
Underground hydrant DN 100 PN 10 and ductile iron PN 10/16

Underground hydrant double protected DN 100 PN 10 and ductile iron PN 10/16

No.	Description	Pcs.	Material
1.	Spacer ring	1	EN-GJL-250/EN-GJS-500-7
2.	Chamber	1	EN-GJL-250/EN-GJS-500-7
3.	Piston	1	EN-GJS-500-7/EPDM/NBR
4.	Gasket	2	EPDM/NBR
5.	Pipe	1	Steel PN-EN 10088-3:2015 Steel PN-EN 10224:2003
6.	Rivet	2	Steel St 2/Steel C1006
7.	Pipe	1	Steel PN-EN 10088-3:2015 Steel PN-EN 10224:2003 Ductile iron PN-EN 1563:2012
8.	Nut casing	1	EN-GJS-500-7
9.	Nut	1	Brass MO59
10.	Spindle	1	Stainless steel 2H13
11.	Head	1	EN-GJL-250/EN-GJS-500-7
12.	Choke	1	Brass MO59
13.	Bearing	2	Tarnamid, steel
14.	O-ring	3	EPDM/NBR
15.	Protection ring	1	EPDM/NBR
16.	O-ring	1	EPDM/NBR
17.	Rivet	1	Steel St 2
18.	Knob	1	EN-GJL-250/EN-GJS-500-7
19.	Gasket	1	EPDM/NBR
20.	Standpipe hook	1	EN-GJS-500-7
21.	Protection cap	1	EPDM/NBR
22.	Cord	1	Steel
23.	Screw, pad, nut	2	Galvanized steel 8.8 class/ Stainless steel A2/A4
24.	Ball pusher	1	Stainless steel 2H13
25.	O-ring	2	EPDM/NBR
26.	Screw, pad	4	Galvanized steel 8.8 class/ Stainless steel A2
27.	Ball	1	EPDM/NBR
28.	Ball chamber	1	EN-GJS-500-7



Underground hydrant with double protection with a nominal diameter of 100 mm for pressure 1,0 or 1,6 MPa with an automatic drainage device in the lower chamber. Intended for drawing water from a general-purpose pipeline with a nominal diameter of 100 mm, water at a temperature of up to 40°C and a pressure of up to 1,0 or 1,6 MPa. Equipped with a ball protection.

Coating: epoxy paint UV resisted, 250-360 µm
Flange connection: PN-EN 1092-2:1999
Nominal pressure: 1,0/1,6 MPa, PN 10/16

DN	Size	H	Rd	l	n	Weight
100	A	750	1000	18	8	39,00
	B	1000	1250	18	8	41,50
	C	1250	1500	18	8	44,00
	X	as per order				

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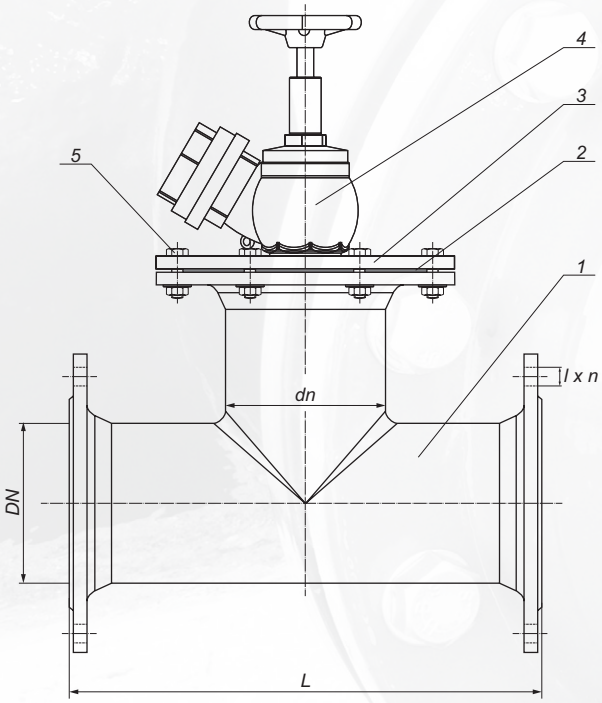
Underground hydrant double protected DN100 PN 10 and ductile iron PN 10/16

Flanged cleaner TKH PN 10 and ductile iron PN 10/16



A flange cleaner with an inspection valve enables pipeline inspection, cleaning and flushing water supply and sewage network.

DN	dn	L	l	n	Weight
50	50	300	18	4	11,50
65*	65	330	18	4	16,70
80	50	310	18	4(8)	20,40
	65*	330	18	4(8)	20,70
	80	330	18	4(8)	21,80
100	50	320	18	8	18,40
	65*	320	18	8	18,60
	80	360	18	8	19,00
	100	360	18	8	19,30
125*	80	400	18	8	23,10
	100	400	18	8	23,50
	120	400	18	8	23,90
150	50*	440	22	8	29,00
	65*	440	22	8	30,00
	80	440	22	8	30,50
	100	440	22	8	32,50
	125*	440	22	8	33,00
	150	440	22	8	34,00
200	80	520	22	8(12)	45,00
	100	520	22	8(12)	46,00
	150	520	22	8(12)	48,00
	200	520	22	8(12)	49,00
250*	80	700	22(26)	12	65,00
	100	700	22(26)	12	69,00
	150	700	22(26)	12	70,00
	200	700	22(26)	12	80,00
	250	700	22(26)	12	89,00
300*	80	800	22(26)	12	93,00
	100	800	22(26)	12	97,00
	150	800	22(26)	12	98,00
	200	800	22(26)	12	105,00
	250	800	22(26)	12	116,00
	300	800	22(26)	12	125,00

** Products available only in ductile iron version EN-GJS-500-7*

Coating: epoxy paint UV resisted, 250-360 µm
Flange connection: PN-EN 1092-2:1999
Nominal pressure: 1,0/1,6 MPa, PN 10/16

No.	Description	Material
1.	Body	EN-GJL-250/EN-GJS-500-7
2.	Gasket	EPDM/NBR
3.	Flange	EN-GJL-250/EN-GJS-500-7
4.	Valve DN 50	AK11
5.	Screw, pad, nut	Galvanized steel 8.8 class/ Stainless steel A2/A4

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Flanged cleaner TKH PN 10 and ductile iron PN 10/16

Hydrant accessories

Standpipes for underground hydrants

No.	Description	Material	Index
1.	Standpipe DN 80	AK11-A1Si11	1-424 000 080 01
2.	Standpipe DN 100	AK11-A1Si11	1-424 000 100 01

They are used to collect water from underground hydrants.

Wrenches for hydrants and valves

No.	Description	Material	Index
3.	Overground hydrant wrench „K4”	Galvanized steel St3S	1-424 000 000 02
4.	Fire hose wrench „K2”	Galvanized steel St3S	1-424 000 000 03
5.	Storz coupling and valve wrench	Galvanized steel St3S	1-424 000 000 04
6.	Overground hydrant cover wrench „K6”	Galvanized steel St3S	1-424 000 000 06
7.	Storz coupling wrench „K3”	Galvanized steel St3S	1-424 000 000 05
8.	Underground hydrant and gate valve wrench „T”	St 2/EN-GJS-500-7	1-424 000 000 00

They are used for opening and closing overground and underground hydrants and gate valves.

Overground hydrant storz couplings

No.	Description	Material	Index
9.	Storz coupling (aluminum)	AK11	1-422 000 000 00
10.	Storz coupling (plastic)	ABS	1-422 000 000 01

They are used to connect a fire hose.

Overground hydrant covers

No.	Description	Material	Index
11.	Cover for overground hydrant	EN-GJL-250	1-422 000 000 02
12.	Cover for overground hydrant	Polyethylene HDPE	1-422 000 000 03
13.	Cover for overground hydrant (fang)	Plastic ABS	1-422 000 000 04
14.	Cover for overground hydrant	Aluminum AK11	1-422 000 000 05

They are used to secure the overground hydrant outlets.

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Hydrant accessories

Standpipe for underground hydrant

1.

Overground hydrant wrench,
Fire hose wrench
Storz coupling wrench

3.

4.

5.

6.

7.

Wrench
for valves and
underground hydrants

8.

Storz couplings

9.

10.

Covers for overground hydrants

11.

12.

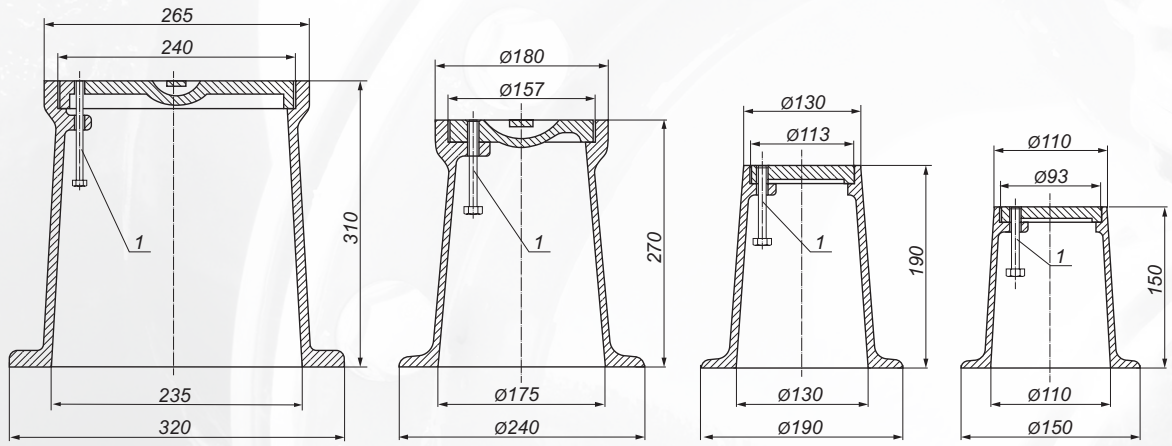
Covers (fang)

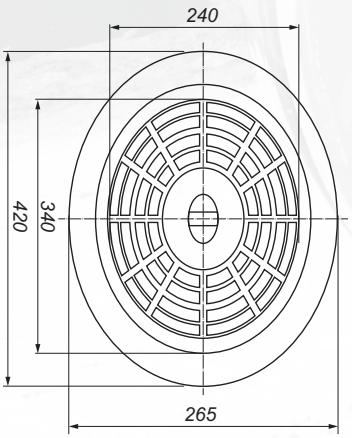
13.

Covers (aluminum)

14.

Street box





Coating: bitumen black paint
Material: cast iron EN-GJL-250, PN-EN 1561:2000

** Available in „gaz" version.*
The „gaz" version is also available with a yellow lid.

*** Available with cover made of ductile iron EN-GJS-500-7, PN-EN 1563:2000.*

1) screw – galvanized steel 8.8/stainless steel A2

Street box for valves h-270 acc. to PN-M-74081
Street box for hydrants h-310 acc. to PN-M-74082

Description	Height	Weight
Street box for connectors 80*	150	3,10
Street box for connectors 100	190	5,10
Street box for connectors 270*/**	270	13,00
Street box for hydrants DN80 and DN100 „NORSON"*	310	32,10

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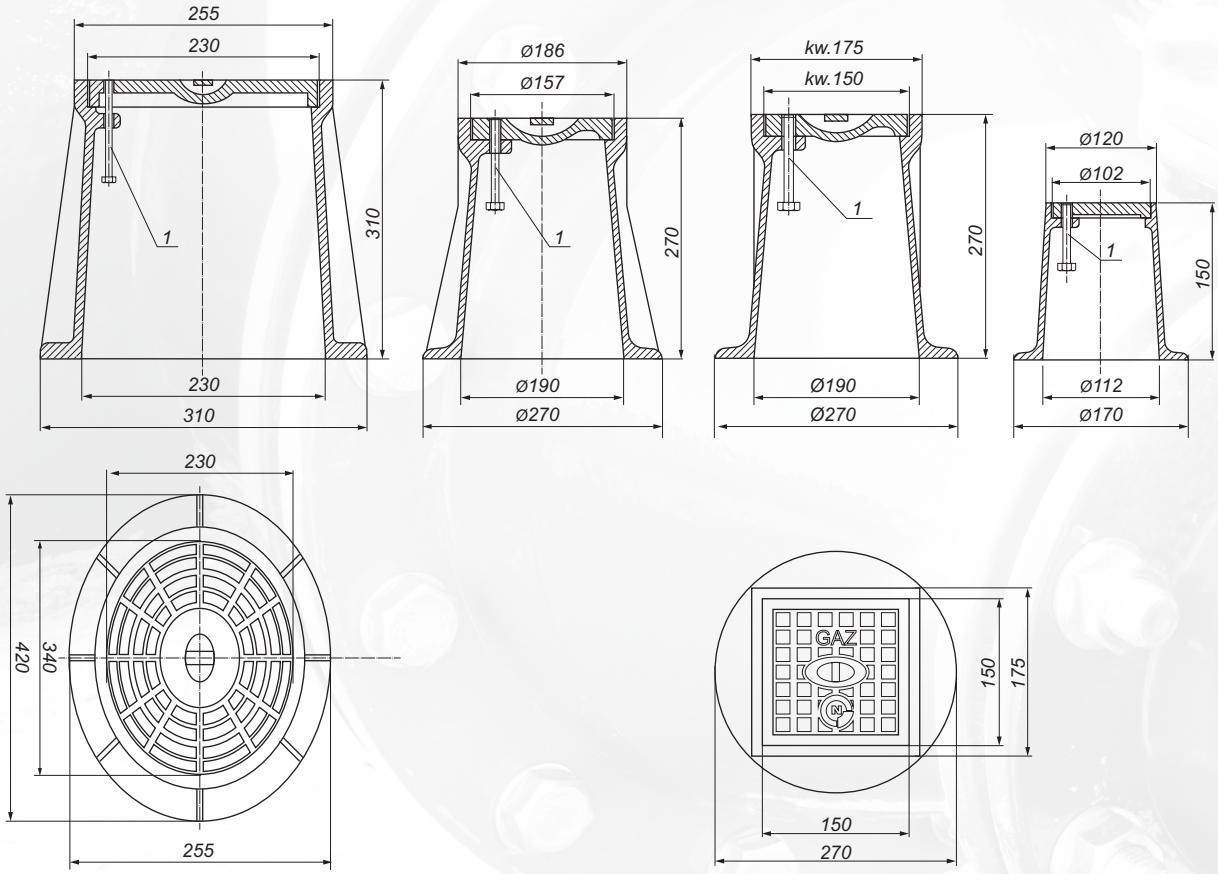
Street box HDPE with cast iron lid



Lid coating: bitumen black paint
Lid material: cast iron EN-GJL-250, PN-EN 1561:2000
Body material: HDPE

** Available in „gaz" version.*
The „gaz" version is also available with a yellow lid.

*** Available with cover made of ductile iron EN-GJS-500-7, PN-EN 1563:2000.*

1) screw – galvanized steel 8.8/stainless steel A2

Description	Height	Weight
Street box for connectors 90*	150	2,10
Street box for connectors fig 4056 round*/**	270	4,00
Street box for connectors fig 3581 square*	270	4,00
Street box for hydrants DN80 and DN100 „NORSON" fig 4055*	310	12,00

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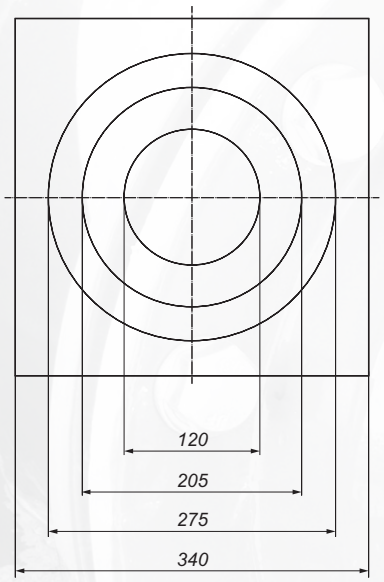
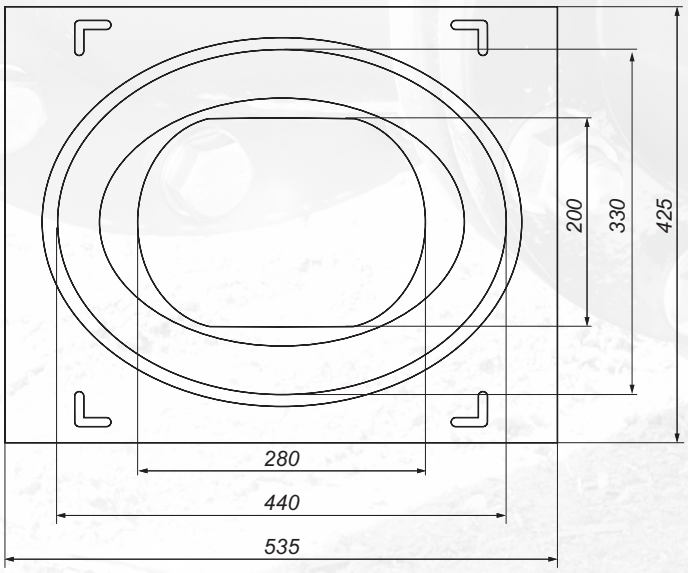
Street box HDPE with cast iron lid

HDPE pad for street boxes

for street boxes



for hydrants



Material: HDPE
It is used to stabilize the box on the ground.

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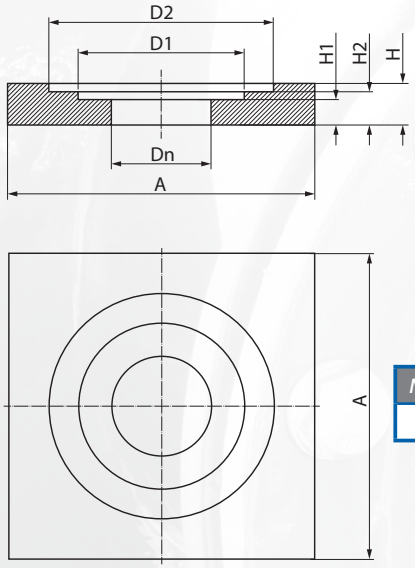
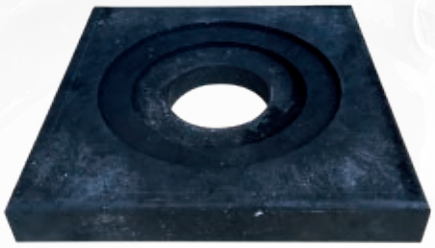
HDPE pad for street boxes

Composite elements

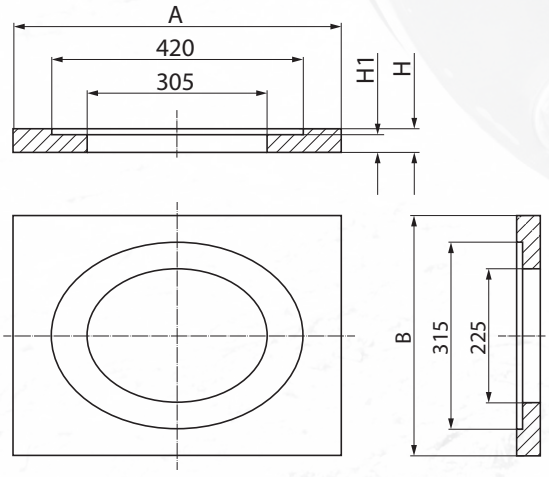




TXP/370/120

No.	Description	Dn	D1	D2	A	H	H1	H2	Weight
1.	Support pad for valve street boxes	120	200	270	370	50	30	40	6,80

Universal adapters supporting street boxes, used in water and gas installations. Set on sand bed (min. 5 cm thick) or compact foundation to ensure stable foundation of boxes and to protect them against displacement and settlement.



TXP/550/225

No.	Description	A	B	H	H1	Weight
1.	Support pad for hydrant boxes	555	405	40	30	8,60

Supporting pad for a underground hydrant box. Set on sand bed (min. 5 cm thick) or compact foundation to ensure stable foundation of the box and to protect it against displacement and settlement.

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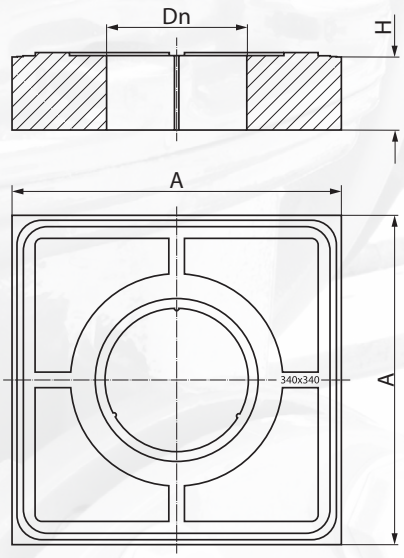
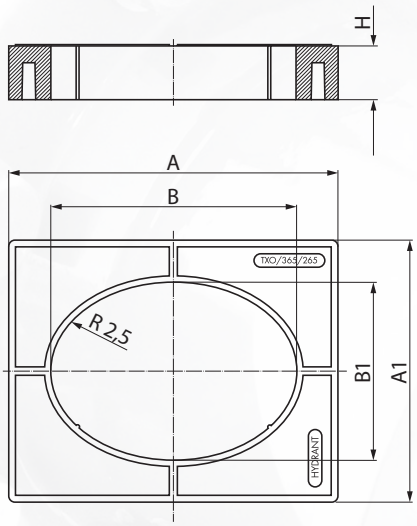
Composite elements



TXO/340/125
TXO/340/195

No.	Description	A	Dn	H	Weight
1.	Upper cover element of service valve box	340	125	80	9,00
2.	Upper cover element of valve box	340	195	80	7,20

Surface, upper cover elements of street water supply boxes and gas installations around the box, on a compact foundation or in paving, bituminous pavement, green area. They protect the boxes against shifting and facilitate installation in paving.



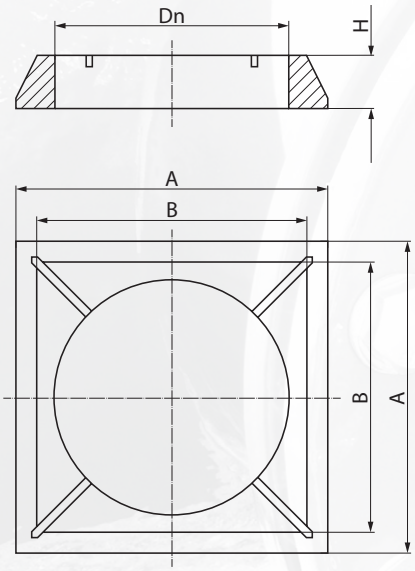
TXO/365/265

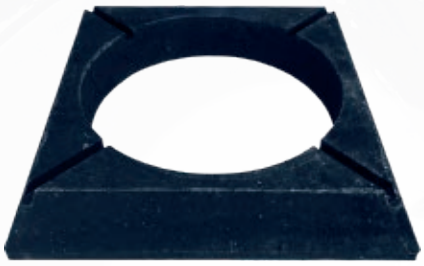
No.	Description	A	A1	B	B1	H	Weigh
1.	Upper cover element of hydrant box	490	390	365	265	80	11,50

Cover element of the oval street box for underground hydrants. Installed in the surface of cobblestone cubes, on prepared, stabilized ground.

Material: composition of thermoplastic polymers (PVC, PE, PEX)
Compressive strength: 400 kN in accordance with PN-EN 124-1:2015-07
Impregnability: 0,02% in accordance with PN-EN ISO 62:2008
Frost resistance in water: F150 (without changing the strength and surface structure)
Frost resistance in 2% NaCl solution: F50 (without changing the strength and surface structure)
Thermal resistance: from -30°C to + 60°C (in continuous operation)
and up to 180°C during installation in asphalt surface
Certyficate: IBDiM-KOT-2017/0047

Composite elements



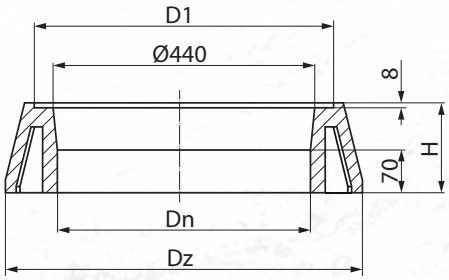


TXP/315/PN

No.	Description	Dn	A	B	H	Weight
1.	Conical pad under the manhole body 370/370	330	440	380	75	8,30

Supporting pad for telescopic manholes and DN 315 grates installed in bituminous pavement. Intended for square bodies of manholes with external dimensions 370 x 370 mm.

T3/400/N



No.	Description	Dn	Dz	D1	H	Weight
1.	Conical pad under the round manhole body 425	425	600	503	150	17,50

Conical pad for telescopic manhole pipe DN425.

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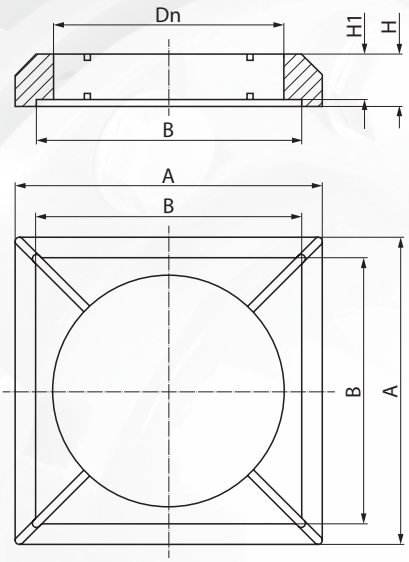
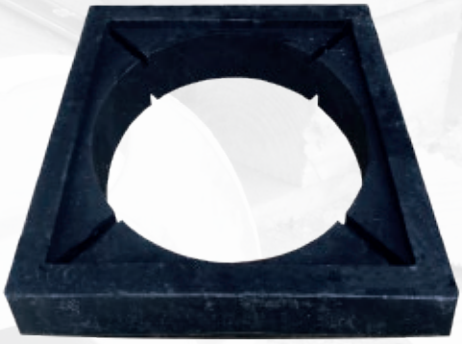
No.	Description	Dn	A	B	H	H1	Weight
1.	Universal supporting pad under the manhole body 355/355	330	420	357	100	87	10,40

Universal adapter for covering and supporting square telescopic manholes DN 315 with dimensions of 355 x 355 mm.
In bituminous pavement, the sloping side is the supporting side of the manhole, while in the pavement the manhole is embedded in the cover cavity of the adapter – square page. It is embedded on a cement foundation in a cobblestone pavement.
In bituminous pavement, correct filling and compaction of the bituminous layer under the adapter is required.

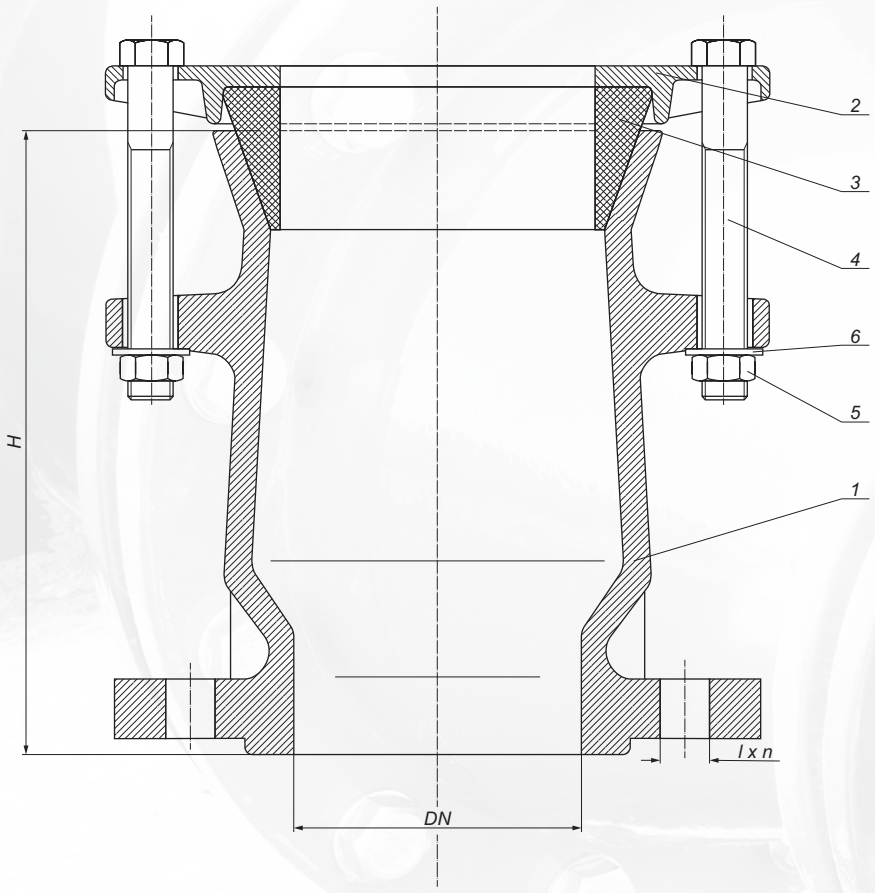




TXO/315/N355U

Material: composition of thermoplastic polymers (PVC, PE, PEX)
Compressive strength: 400 kN in accordance with PN-EN 124-1:2015-07
Impregnability: 0,02% in accordance with PN-EN ISO 62:2008
Frost resistance in water: F150 (without changing the strength and surface structure)
Frost resistance in 2% NaCl solution: F50 (without changing the strength and surface structure)
Thermal resistance: from -30°C to +60°C (in continuous operation) and up to 180°C during installation in asphalt surface
Certyficate: IBDiM-KOT-2017/0047

Flanged adaptor RK
ductile iron PN 10/16



It is used to connect: PVC, cast iron, steel and asbestos-cement pipes with flanged fittings.

Coating: epoxy paint 250-360 µm
Flange connection: PN-EN 1092-2:1999
Nominal pressure: 1,0/1,6 MPa; PN 10/16

No.	Description	Material
1.	Body	EN-GJS-500-7
2.	Ring	EN-GJS-500-7
3.	Gasket	EPDM/NBR
4.	Screw	Galvanized steel 8.8/ Stainless steel A2/A4
5.	Nut	
6.	Pad	

DN	DN/OD Range	H	l	n	Weight
80	88-102 mm	145	18	4(8)	9,30
80	84-108 mm	120	18	8	5,50
100	108-124 mm	155	18	8	11,60
100	107-130 mm	120	18	8	6,50
150	159-179 mm	165	22	8	17,50
150	158-184 mm	120	22	8	10,50
200	219-238 mm	190	22	8(12)	24,20
200	218-235 mm	120	22	8(12)	12,50
250	270-295 mm	120	22(26)	12	24,50
300	310-335 mm	130	22(26)	12	26,50

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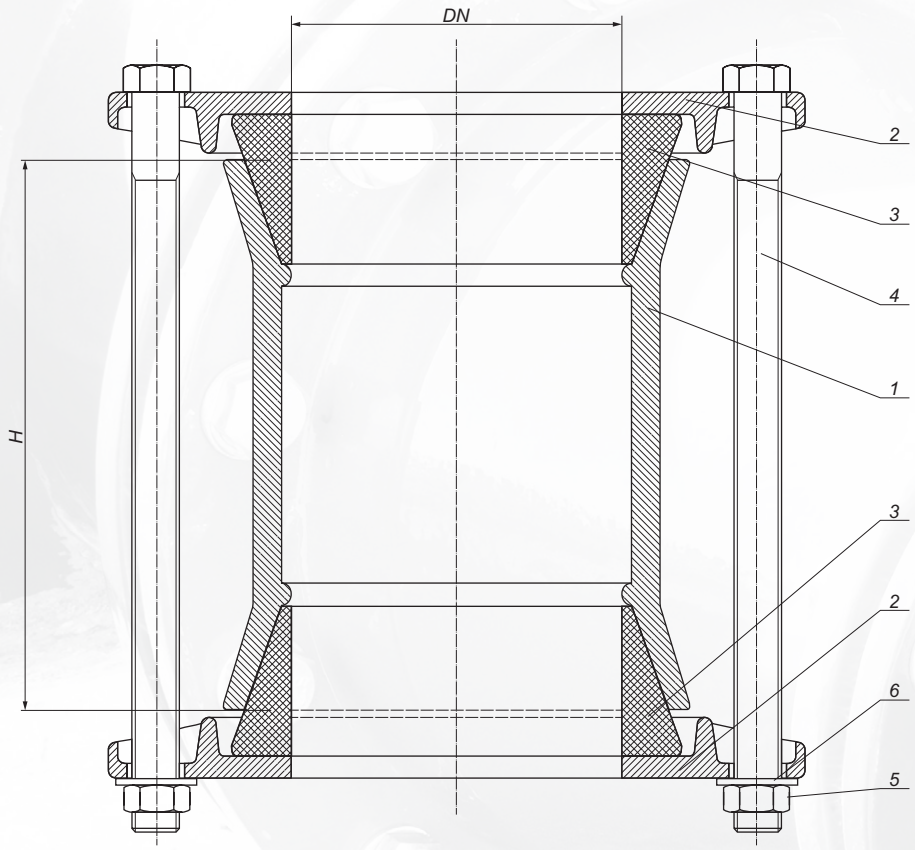
Flanged adaptor RK ductile iron PN 10/16

Coupling RR
ductile iron PN 10/16



It is used to connect pipes (PVC, cast iron, steel, asbestos-cement) in various combinations.

Coating: epoxy paint 250-360 µm
Flange connection: PN-EN 1092-2:1999
Nominal pressure: 1,0/1,6 MPa; PN 10/16

No.	Description	Material
1.	Body	EN-GJS-500-7
2.	Ring	EN-GJS-500-7
3.	Gasket	EPDM/NBR
4.	Screw	Galvanized steel 8.8/ Stainless steel A2/A4
5.	Nut	
6.	Pad	

DN	DN/OD Range	H	Weight
80	88-102 mm	170	7,70
80	84-108 mm	160	5,50
100	108-124 mm	170	8,50
100	107-130 mm	160	6,60
150	159-179 mm	180	13,00
150	158-184 mm	170	10,00
200	219-238 mm	180	15,60
200	218-246 mm	170	13,50
250	270-295 mm	190	19,00
300	310-335 mm	200	21,50

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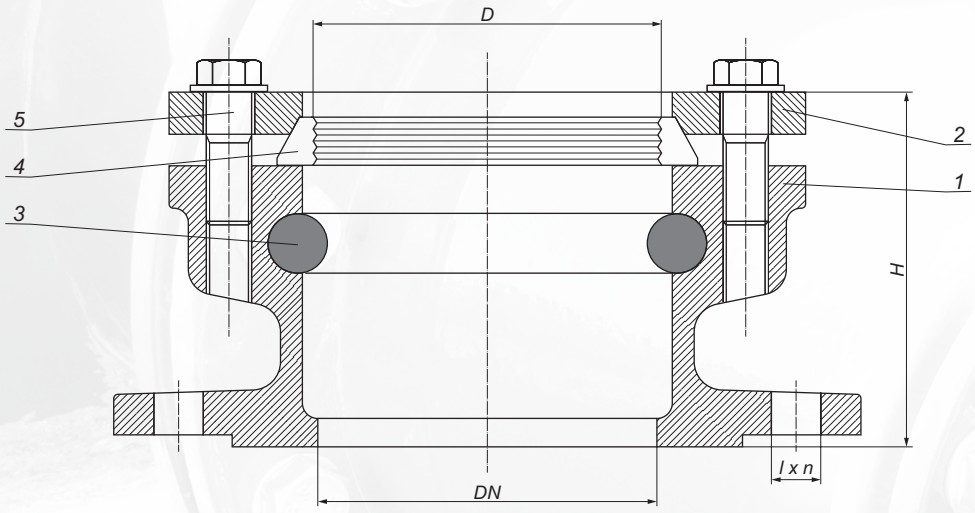
Coupling RR
ductile iron PN 10/16

RKPE flange adaptor ductile iron PN 10/16 with brass insert for PE and PVC pipes



It is used to connect PE and PVC pipes with a flange fittings.
It has brass protection before sliding the pipe out of the fitting.

DN	D	H	l	n	Weight
50	63	96	18	4	3,60
80	90	96	18	8	5,90
100	110	101	18	8	9,80
100	125	122	18	8	10,20
125	125	122	18	8	10,60
125	140	127	18	8	13,00
150	160	141	22	8	15,20
150	180	144	22	8	16,50
200	200	149	22	8(12)	19,00
200	225	155	22(26)	8(12)	20,60
250	250	169	22(26)	12	30,50
250	280	181	22(26)	12	31,30
300	315	191	22(26)	12	46,50

Coating: epoxy paint 250-360 µm
Flange connection: PN-EN 1092-2:1999
Nominal pressure: 1,0/1,6 MPa; PN 10/16

No.	Description	Material
1.	Body	EN-GJS-500-7
2.	Ring	EN-GJS-500-7
3.	O-ring	EPDM/NBR
4.	Protection ring	Brass MO59
5.	Screw, pad	Stainless steel A2/A4

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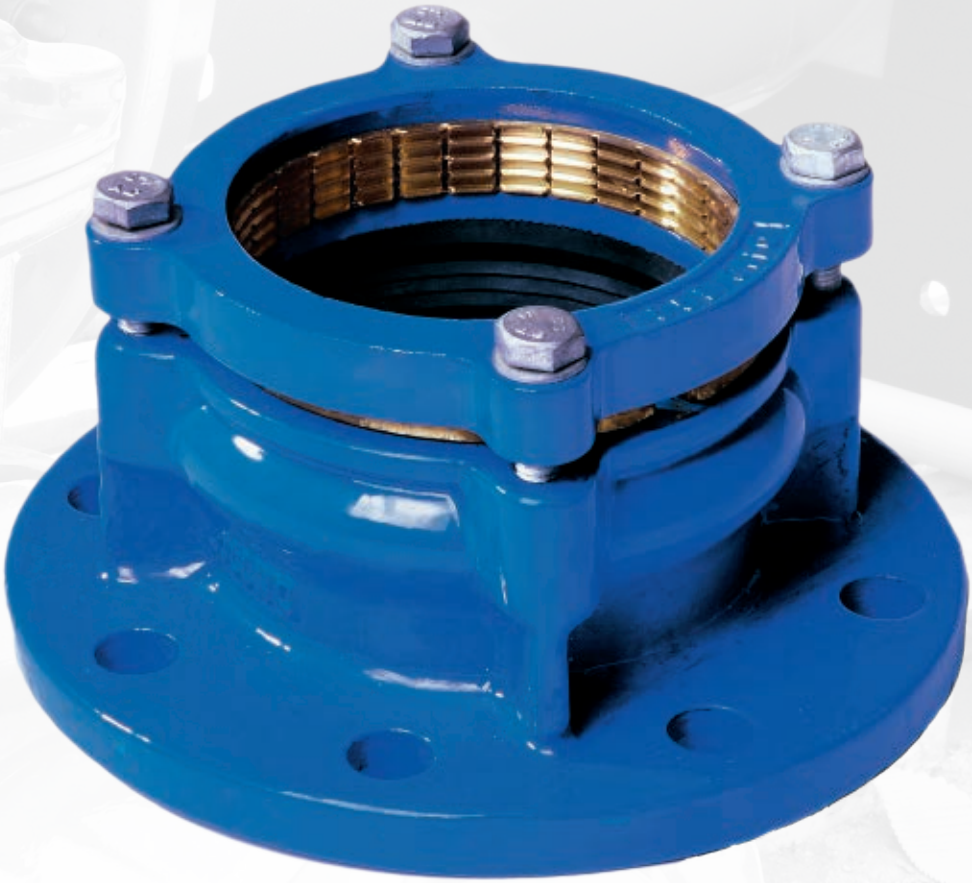
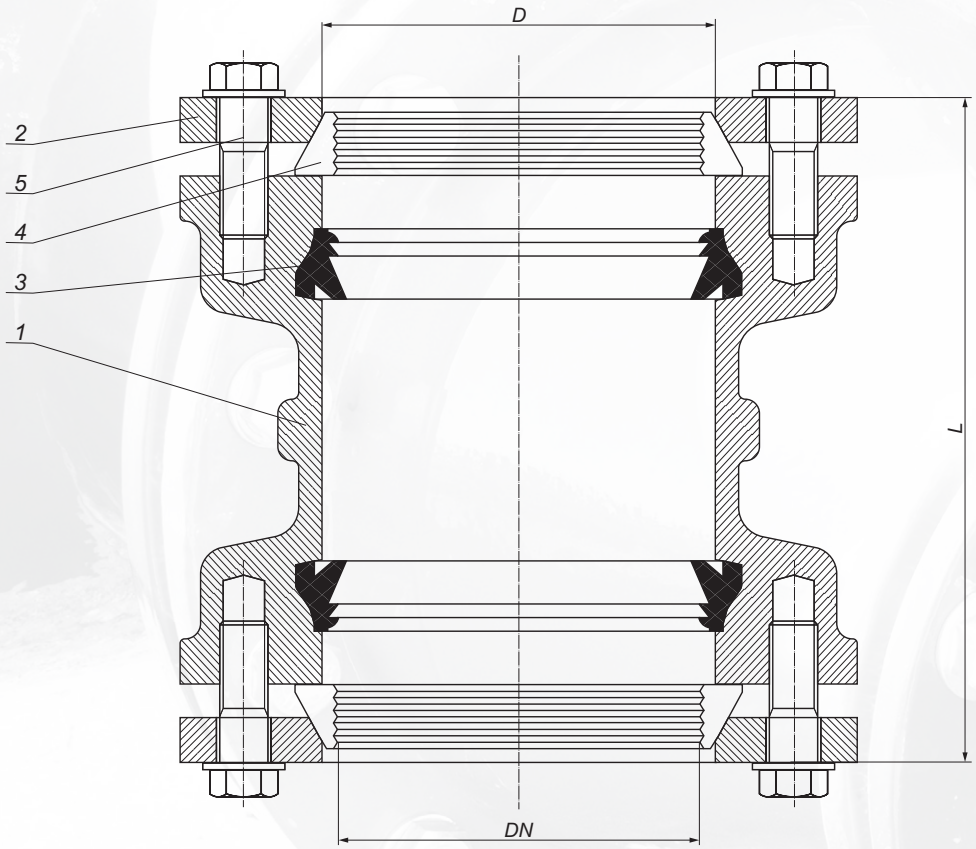
RKPE flange adaptor ductile iron PN 10/16 with brass insert for PE and PVC pipes



RRPE coupling ductile iron PN 10/16 with brass insert for PE and PVC pipes



It is used to connect PE and PVC pipes.
It has brass protections before sliding the pipes out of the fitting.

Coating: epoxy paint 250-360 µm
Nominal pressure: 1,0/1,6 MPa; PN 10/16

No.	Description	Material
1.	Body	EN-GJS-500-7
2.	Ring	EN-GJS-500-7
3.	Seal	EPDM/NBR
4.	Protection ring	Brass MO59
5.	Screw, pad	Stainless steel A2

DN	L	D	Weight
63	163	65	4,00
75	165	77	4,70
90	175	92	5,40
110	175	112	6,70
125	183	127	8,20
140	188	142	9,60
160	212	162	12,40
180	222	183	15,00
200	242	203	19,00
225	262	223	21,00
250	282	253	30,00
280	306	283	35,00
315	326	318	40,00

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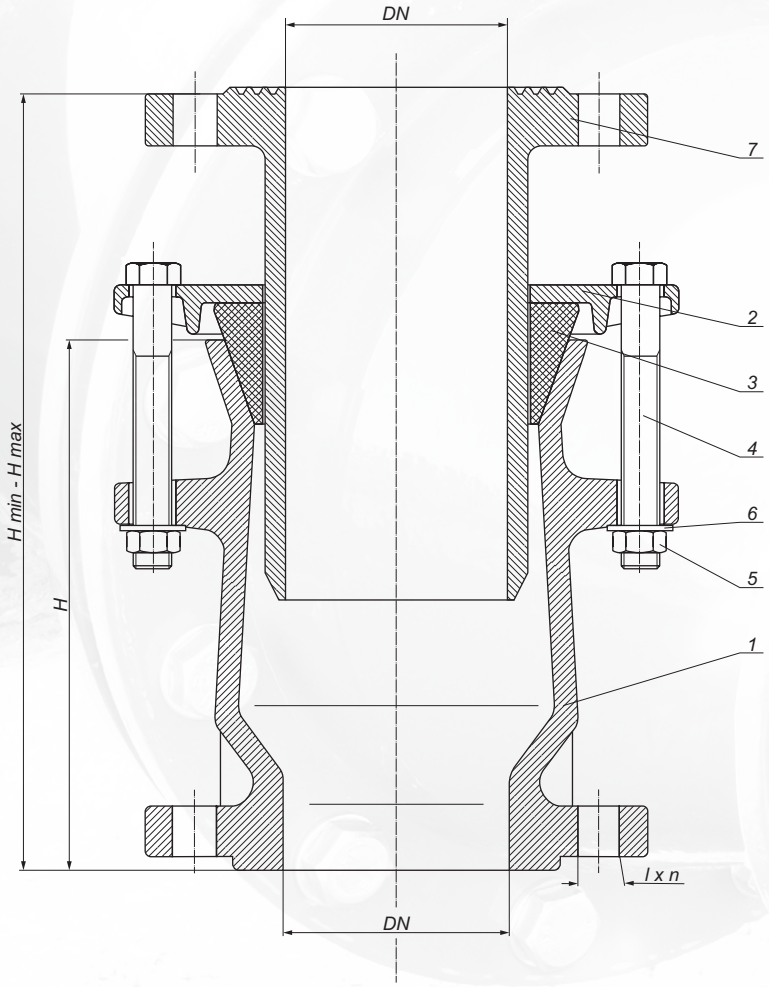
RRPE coupling ductile iron PN 10/16 with brass insert for PE and PVC pipes

RKF Compensate adaptor ductile iron PN 10/16



Coating: epoxy paint 250-360 µm
Flange connection: PN-EN 1092-2:1999
Nominal pressure: 1,0/1,6 MPa, PN 10/16

No.	Description	Material
1.	Body	EN-GJS-500-7
2.	Ring	EN-GJS-500-7
3.	Gasket	EPDM/NBR
4.	Screw	Galvanized steel 8.8 class/ Stainless steel A2/A4
5.	Nut	
6.	Pad	
7.	Flanged pipe	EN-GJS-500-7

It is used for installation of fittings on the water supply network.

DN	H min.	H max.	l	n	Weight
80	220	270	18	4(8)	13,40
100	230	280	18	8	16,50
150	250	300	22	8	26,90
200	275	325	22	8(12)	39,20

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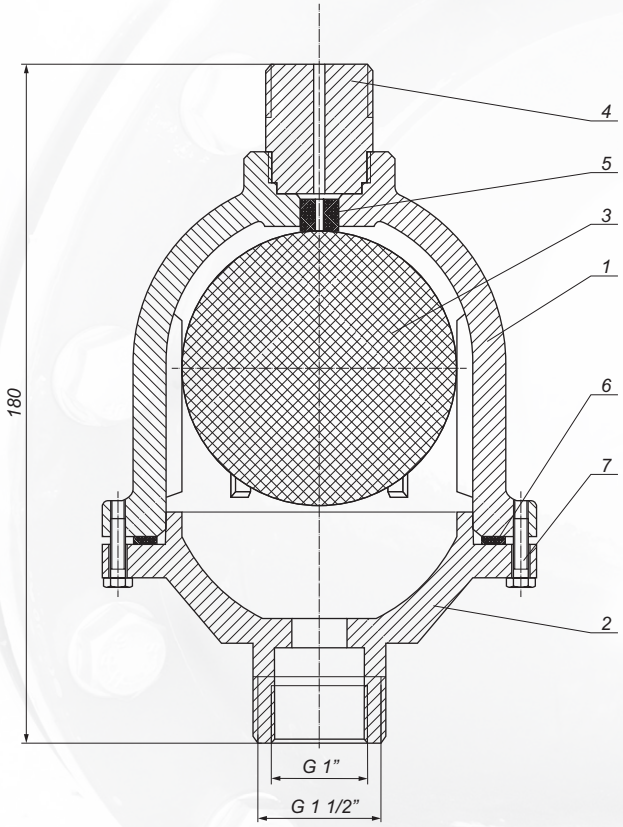
RKF Compensate adaptor ductile iron PN 10/16

Air vent valve PN 10



It is used to remove air or other gases from tanks, pipelines and other elements of plumbing, fire and sewage installations.

Weight: 4,30 kg

No.	Description	Pcs.	Material
1.	Body	1	EN-GJL-250
2.	Cover	1	EN-GJL-250
3.	Float - ball	1	Izopian/Galvanized steel
4.	Plug	1	Stainless steel 2H13
5.	Gasket	1	EPDM/NBR
6.	O-ring	1	EPDM/NBR
7.	Screw	4	Galvanized steel 8.8 class/ Stainless steel A2

Coating: epoxy paint 250-360 µm

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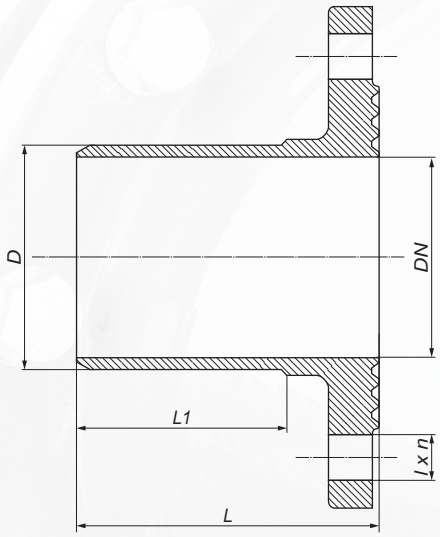
Air vent valve PN 10

Spigot FW
PN 10 and ductile iron PN 10/16



It is used to connect the socket end of the PVC pipe with water supply flange.

Coating: bitumen paint, epoxy paint 250-360 µm
Material: cast iron EN-GJL-250, PN-EN 1561:2000
Flange connection: PN-EN 1092-2:1999
Nominal pressure: 1,0 MPa; PN 10

DN	D	L1	L	l	n	Weight
50	63	70	95	18	4	2,60
80	90	85	115	18	8	4,10
100	110	95	120	18	8	4,90
150	160	125	145	22	8	9,40
200	200	135	165	22	8	15,00
200	225	135	165	22	8	16,00
250	250	165	200	22	12	22,00
250	280	165	200	22	12	25,00
300	315	215	250	22	12	31,00
400	400	265	320	26	16	46,00
500	500	285	340	26	20	89,00

Coating: epoxy paint 250-360 µm
Material: ductile iron EN-GJS-500-7, PN-EN 1563:2000
Flange connection: PN-EN 1092-2:1999
Nominal pressure: 1,0/1,6 MPa; PN 10/16

DN	D	L1	L	l	n	Weight
50	63	94	120	18	4	3,70
80	90	103	131	18	8	5,70
100	110	111	138	18	8	6,90
150	160	128	158	22	8	12,00
200	225	148	178	22	8(12)	20,00
250	250	157	190	22(26)	12	23,00
250	280	177	202	22(26)	12	24,00
300	315	177	214	22(26)	12	30,00

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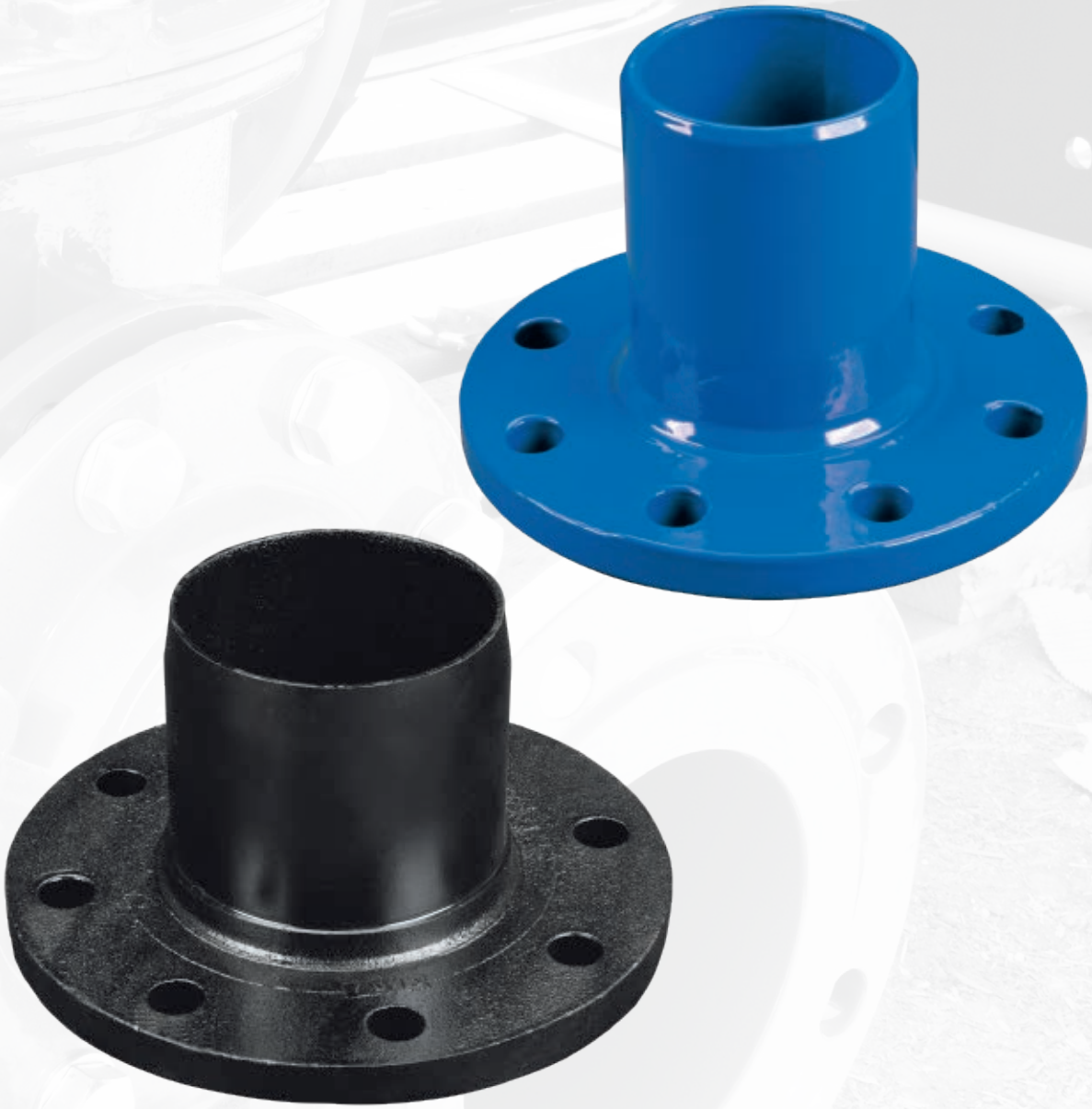
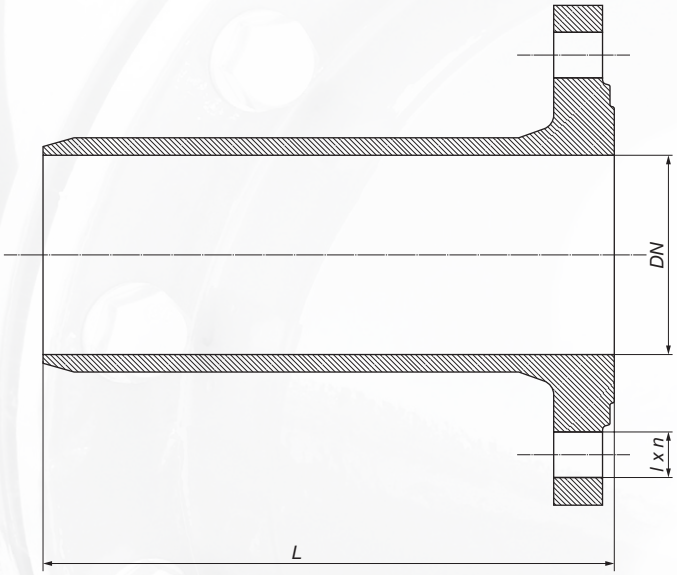
Spigot FW
PN 10 and ductile iron PN 10/16



Single flanged pipe F
PN 10 and ductile iron PN 10/16



Coating: bitumen paint, epoxy paint 250-360 µm
Material: ductile iron pipe EN-GJS-500-7, PN-EN 1563:2000
Flange: EN-GJL-250, PN-EN 1561:2000,
EN-GJS-500-7, PN-EN 1563:2000
Flange connection: PN-EN 1092-2:1999
Nominal pressure: 1,0 MPa; PN 10

DN	L	l	n	Weight	
				L-400	+/-100 mm
80	300, 400, 500	18	8	12,00	0,90
100		18	8	16,00	1,50
150		22	8	22,00	3,20
200		22	8	34,00	5,00

Possibility to make lenght L according to the order.

It is used to connect cast iron pipes with flanged fitting.

Coating: epoxy paint 250-360 µm
Material: ductile iron EN-GJS-500-7, PN-EN 1563:2000
Flange connection: PN-EN 1092-2:1999
Nominal pressure: 1,0/1,6 MPa, PN 10/16

DN	L	l	n	Weight	
				L-400	+/-100 mm
50	300, 400, 500	18	4	8,20	0,80
65		18	4	8,90	0,90
80		18	8	11,00	1,10
100		18	8	11,70	2,70
125		18	8	14,10	2,80
150		22	8	16,00	3,00
200		22	8(12)	28,00	4,50
250		22(26)	12	36,00	5,50
300		22(26)	12	50,00	6,00

It is possible to make an F connector with a length of L 100-1000 mm.

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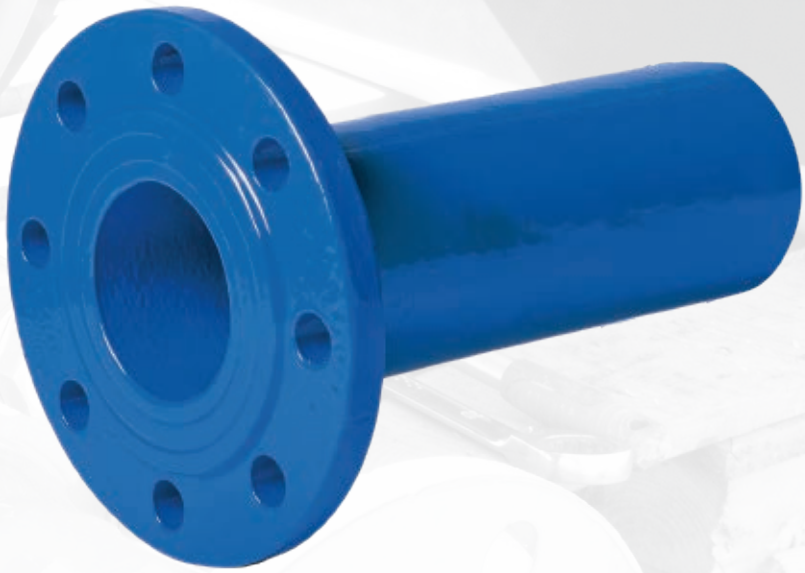
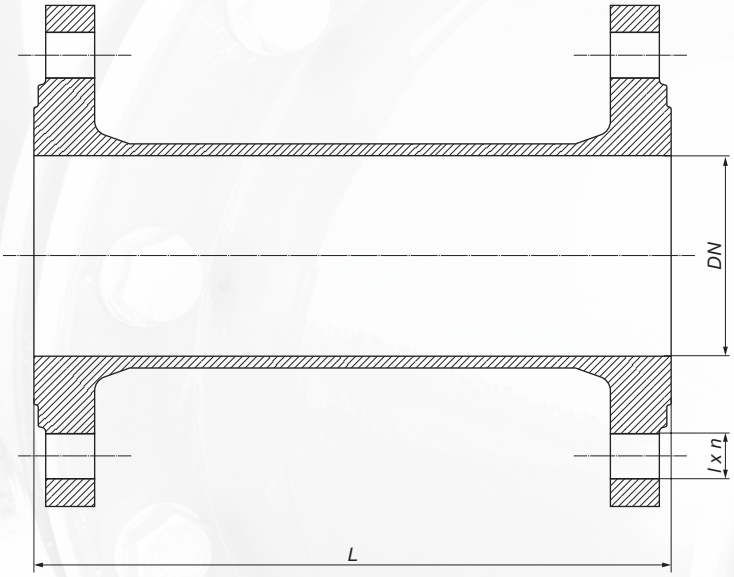
Single flanged pipe F
PN 10 and ductile iron PN 10/16



Double flanged pipe FF
PN 10 and ductile iron PN 10/16



It is used to connect flanged fittings.

Coating: bitumen paint, epoxy paint 250-360 µm
Material: cast iron EN-GJL-250, PN-EN 1561:2000
Flange connection: PN-EN 1092-2:1999
Nominal pressure: 1,0 MPa; PN 10

DN	L	l	n	Weight	
				L-500	+/-100 mm
80	100, 200, 300, 400, 500, 600, 800, 1000	18	8	16,00	0,90
100		18	8	20,00	1,50
150		22	8	28,00	3,20
200		22	8	45,00	5,00

Possibility to make length L according to the order.

Lengths over 500 mm - ductile iron pipe EN-GJS-500-7, PN-EN 1563:2000 and flange EN-GJL-250, PN-EN 1561:2000 or EN-GJS-500-7, PN-EN 1563:2000

Coating: epoxy paint 250-360 µm
Material: ductile iron, EN-GJS-500-7, PN-EN 1563:2000
Flange connection: PN-EN 1092-2:1999
Nominal pressure: 1,0/1,6 MPa; PN 10/16

DN	L	l	n	Weight	
				L-500	+/-100 mm
50	200, 300, 400, 500	18	4	11,00	0,90
65		18	4	11,90	1,00
80	100, 200, 300, 400, 500, 600, 800, 1000	18	8	13,40	1,60
100		18	8	16,50	1,80
125	200, 300, 400, 500	18	8	22,30	2,60
150	100, 200, 300, 400, 500, 600, 800, 1000	22	8	24,00	3,00
200		22	8(12)	37,50	4,50
250	300, 400, 500, 1000	22(26)	12	51,50	6,00
300		22(26)	12	64,50	6,50

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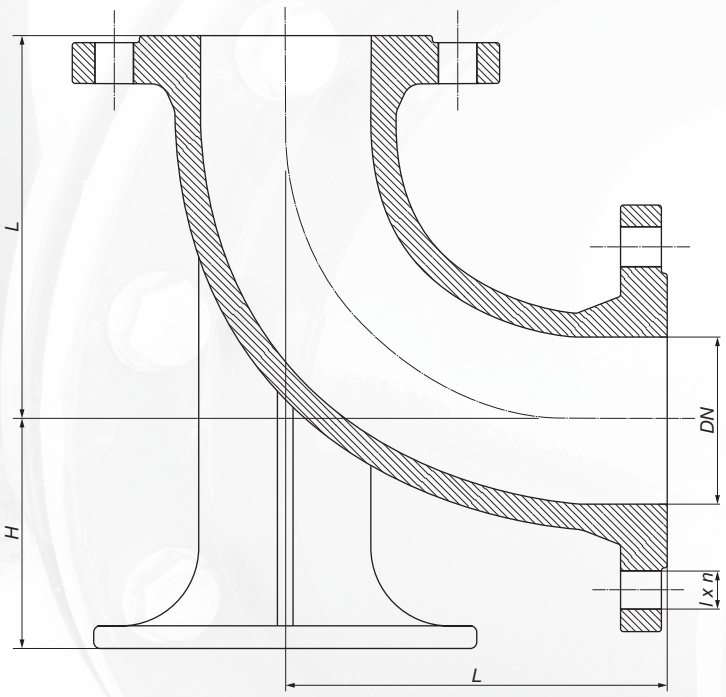
Double flanged pipe FF
PN 10 and ductile iron PN 10/16

Duckfoot bend N
PN 10 and ductile iron PN 10/16



It is used to build water supply systems and extend the pipeline to the surface (installation of hydrants).

Coating: bitumen paint, epoxy paint 250-360 µm
Material: cast iron EN-GJL-250, PN-EN 1561:2000
Flange connection: PN-EN 1092-2:1999
Nominal pressure: 1,0 MPa; PN 10

DN	L	H	l	n	Weight
80/65	165	110	18	8/4	12,00
80	165	110	18	4(8)	15,40
100	180	125	18	8	20,50
150	220	160	22	8	42,00
200	260	190	22	8	54,00

Coating: epoxy paint 250-360 µm
Material: ductile iron, EN-GJS-500-7, PN-EN 1563:2000
Flange connection: PN-EN 1092-2:1999
Nominal pressure: 1,0/1,6 MPa; PN 10/16

DN	L	H	l	n	Weight
80	165	110	18	8	15,00
100	180	125	18	8	19,50
150	220	160	22	8	35,00
200	260	190	22	8(12)	51,00

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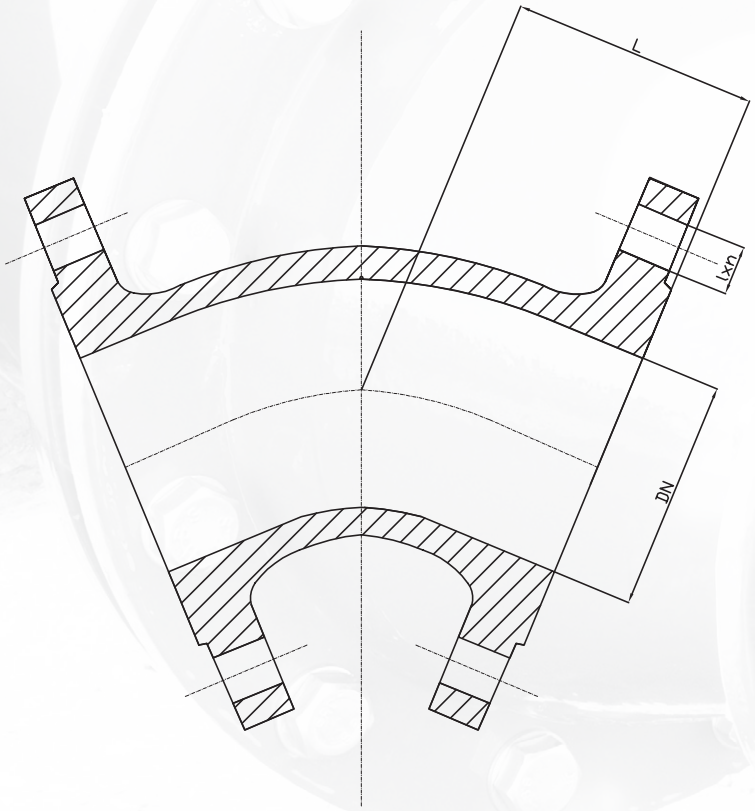
Duckfoot bend N
PN 10 and ductile iron PN 10/16

Flanged bend łłK 45° ductile iron PN 10/16



It is used to turn the course of water supply systems.

DN	L	l	n	Weight
80	130	18	8	9,70
100	140	18	8	11,90
150	160	22	8	21,00
200	180	22	8(12)	33,60

Coating: epoxy paint 250-360 µm
Material: ductile iron, EN-GJS-500-7, PN-EN 1563:2000
Flange connection: PN-EN 1092-2:1999
Nominal pressure: 1,0/1,6 MPa; PN 10/16

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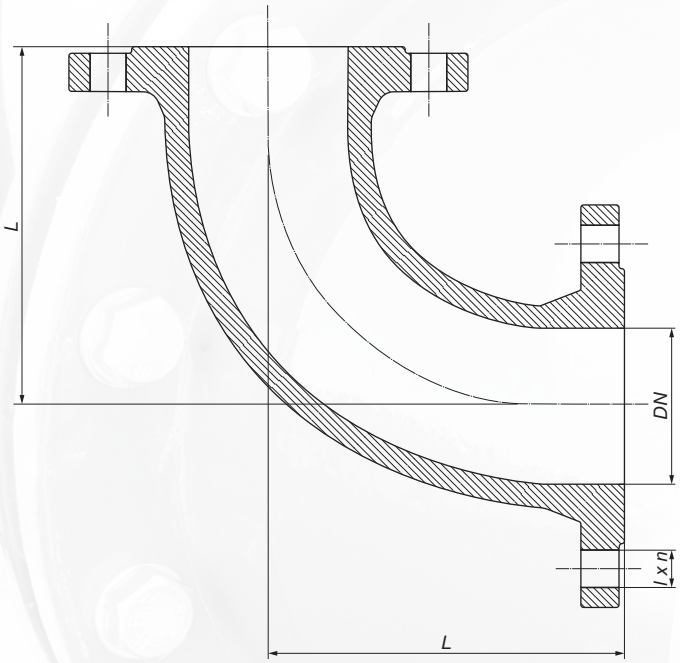
Flanged bend łŁK 45°
ductile iron PN 10/16

Flanged bend Q
PN 10 and ductile iron PN 10/16



It is used to turn the course of water supply systems.

Coating: epoxy paint 250-360 µm
Material: ductile iron, EN-GJS-500-7, PN-EN 1563:2000
Flange connection: PN-EN 1092-2:1999
Nominal pressure: 1,0/1,6 MPa; PN 10/16

DN	L	l	n	Weight
50	150	18	4	8,00
65	160	18	4	8,80
80	165	18	8	9,70
100	180	18	8	11,90
125	200	18	8	17,00
150	220	22	8	21,00
200	260	22	8(12)	33,60
250	350	22(26)	12	52,00
300	400	22(26)	12	72,00

Coating: bitumen paint, epoxy paint 250-360 µm
Material: cast iron EN-GJL-250, PN-EN 1561:2000
Flange connection: PN-EN 1092-2:1999
Nominal pressure: 1,0 MPa; PN 10

DN	L	l	n	Weight
50	150	18	4	6,70
80	165	18	8	12,20
100	190	18	8	16,20
150	220	22	8	28,00
200	260	22	8	52,00

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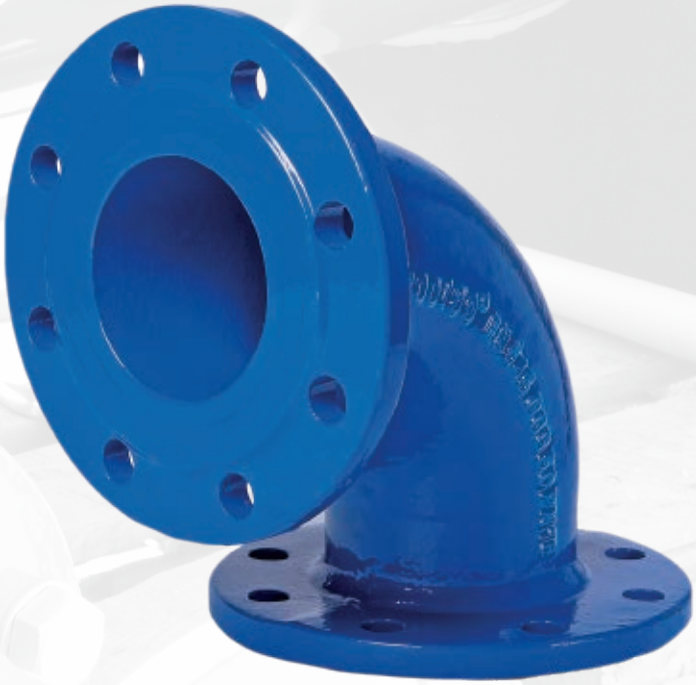
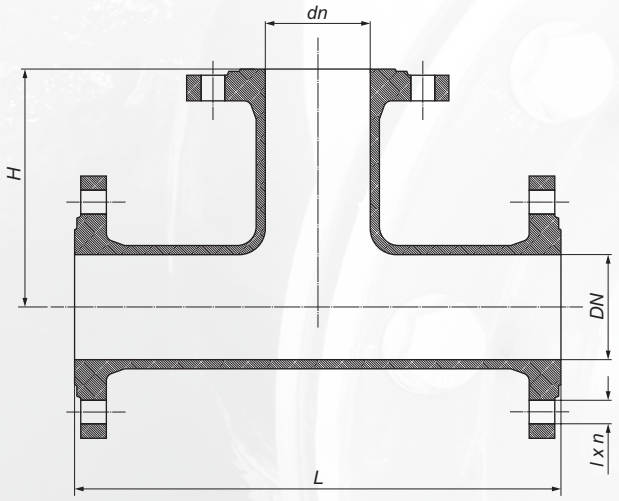
Flanged bend Q
PN 10 and ductile iron PN 10/16



Flanged tee T
PN 10 and ductile iron PN 10/16



It is used to branch and mount fittings on the water supply network.

Coating: bitumen paint, epoxy paint 250-360 µm
Material: cast iron EN-GJL-250, PN-EN 1561:2000
Flange connection: PN-EN 1092-2:1999
Nominal pressure: 1,0 MPa; PN 10

DN	dn	L	H	l	n	Weight
50	50	300	150	18	4	11,70
80	50	320	160	18	4(8)/4	16,30
	80	320	165	18	4(8)	17,00
100	50	360	170	18	8/4	19,40
	80	360	175	18	8/4(8)	20,40
	100	360	180	18	8	21,10
150	80	440	205	22	8/4(8)	34,00
	100	440	210	22	8	36,00
	150	440	220	22	8	40,60
200	80	520	235	22	8/4(8)	52,00
	100	520	240	22	8	53,00
	150	520	250	22	8	55,00
	200	520	260	22	8	61,00

Coating: epoxy paint 250-360 µm
Material: ductile iron, EN-GJS-500-7, PN-EN 1563:2000
Flange connection: PN-EN 1092-2:1999
Nominal pressure: 1,0/1,6 MPa; PN 10/16

DN	dn	L	H	l	n	Weight
50	50	300	150	18	4	11,50
65	65	330	165	18	4	12,50
80	50	310	160	18	8/4	14,20
	65	330	165	18	8/4	14,50
	80	330	165	18	8	15,60
100	50	320	165	18	8/4	18,40
	65	320	165	18	8/4	18,60
	80	360	175	18	8	19,00
	100	360	180	18	8	19,30
125	80	400	190	18	8	23,10
	100	400	195	18	8	23,50
	125	400	195	18	8	23,90
150	50	440	205	22	8/4	29,00
	65	440	205	22	8/4	30,00
	80	440	205	22	8	30,50
	100	440	210	22	8	32,50
	125	440	210	22	8	33,00
	150	440	220	22	8	34,00
200	80	520	235	22	8(12)/8	45,00
	100	520	240	22	8(12)/8	46,00
	150	520	250	22	8(12)/8	48,00
	200	520	260	22	8(12)	49,00
250	80	700	265	22(26)	12/8	65,00
	100	700	275	22(26)	12/8	69,00
	150	700	280	22(26)	12/8	70,00
	200	700	325	22(26)	12/8(12)	80,00
	250	700	350	22(26)	12	89,00
300	80	800	295	22(26)	12/8	93,00
	100	800	300	22(26)	12/8	97,00
	150	800	310	22(26)	12/8	98,00
	200	800	330	22(26)	12/8(12)	105,00
	250	800	350	22(26)	12	116,00
	300	800	400	22(26)	12	125,00

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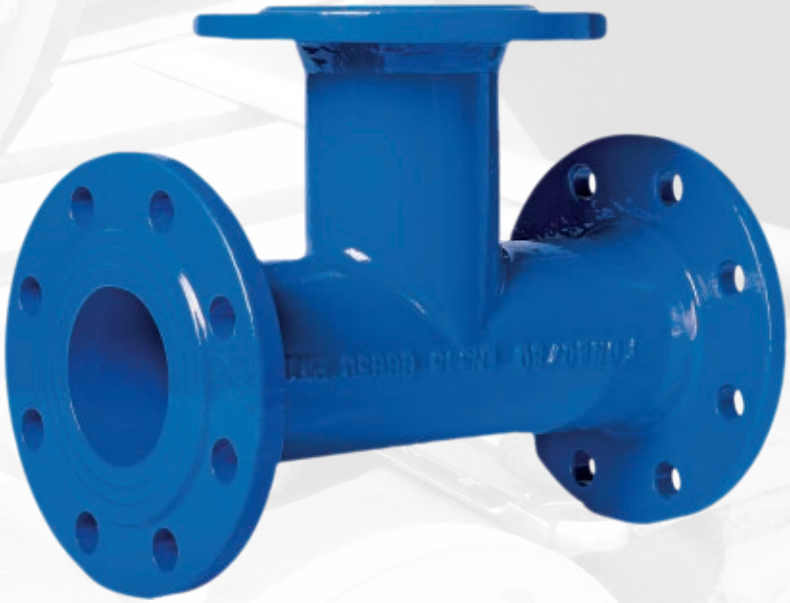
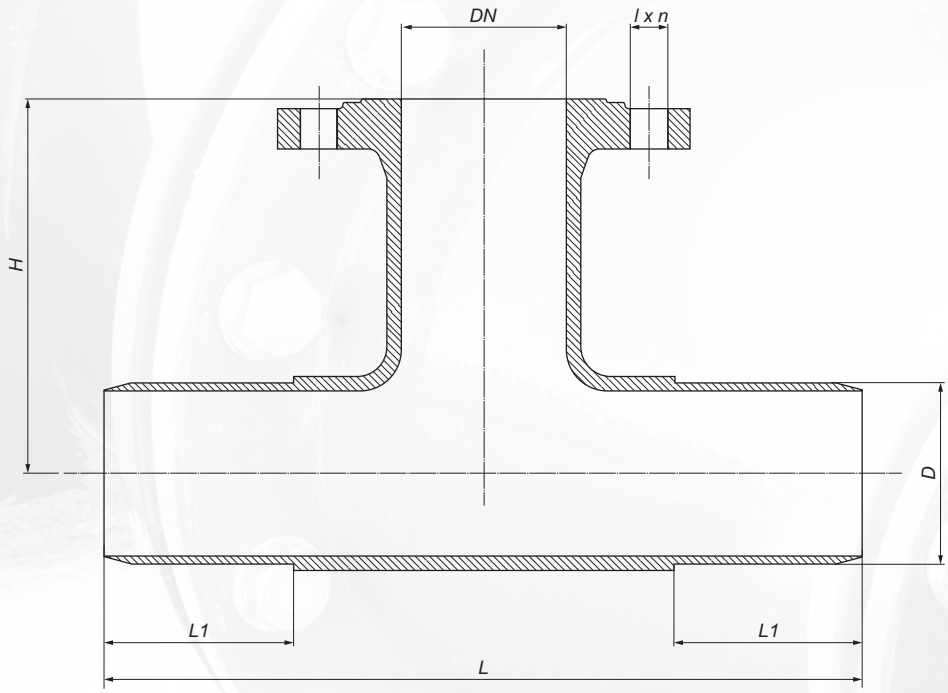
Flanged tee T
PN 10 and ductile iron PN 10/16



Bare tee TBK PN 10



It is used to branch and mount fittings on the water supply network.

D	DN	L	H	L1	l	n	Weight
90	50	300	160	110	18	4	7,60
	80	310	165	110	18	4(8)	10,10
110	50	360	170	110	18	4	9,20
	80	360	175	110	18	4(8)	11,60
	100	360	180	110	18	8	14,00
160	80	370	205	120	22	4(8)	18,00
	100	390	210	120	22	8	20,00
	150	440	220	120	22	8	25,00
225	80	450	235	150	22	4(8)	29,00
	100	450	240	150	22	8	31,00
	150	450	245	150	22	8	37,00

Coating: bitumen paint, epoxy paint 250-360 µm
Material: cast iron EN-GJL-250, PN-EN 1561:2000
Flange connection: PN-EN 1092-2:1999
Nominal pressure: 1,0 MPa; PN 10

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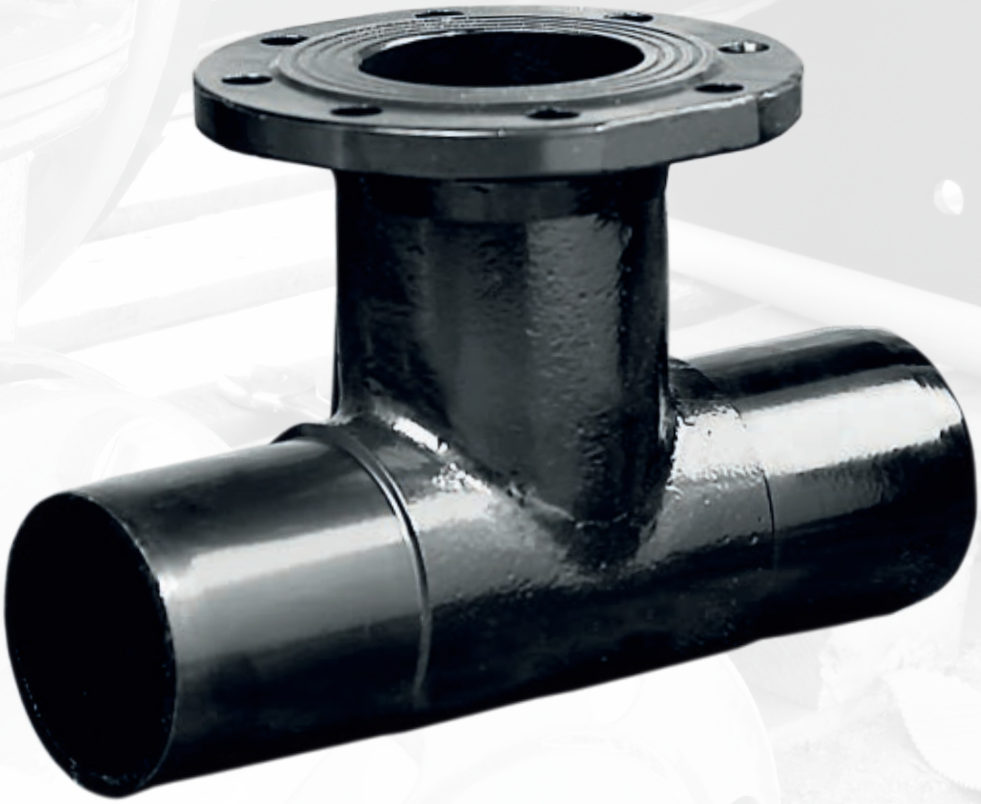
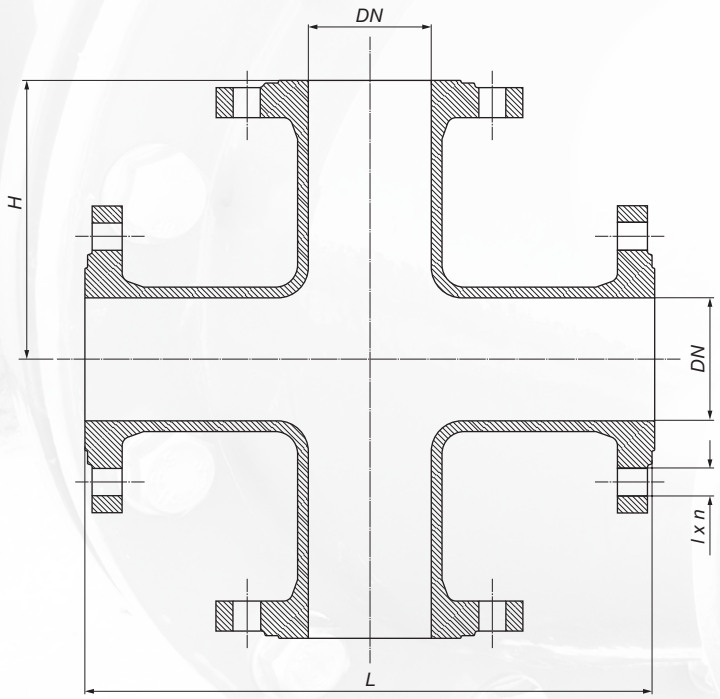
Bare tee TBK PN 10



Flanged cross TT
ductile iron PN 10/16



It is used to branch and mount fittings on the water supply network.

DN	L	l	n	H	Weight
80	330	18	8	165	20,00
100	360	18	8	180	26,00
150	440	22	8	220	42,00
200	520	22	8(12)	260	64,00

Coating: epoxy paint 250-360 µm
Material: ductile iron, EN-GJS-500-7, PN-EN 1563:2000
Flange connection: PN-EN 1092-2:1999
Nominal pressure: 1,0/1,6 MPa; PN 10/16

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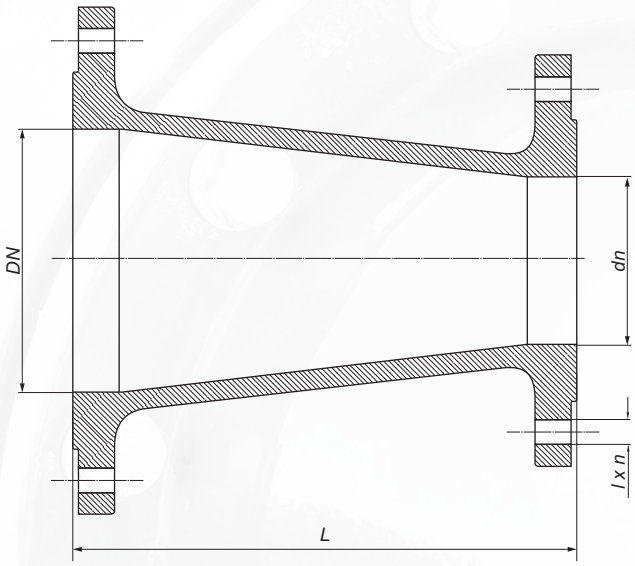
Flanged cross TT ductile iron PN 10/16

Flanged reducer FFR
PN 10 and ductile iron PN 10/16



It is used to reduce diameter in water supply systems.

Coating: epoxy paint 250-360 µm
Material: ductile iron, EN-GJS-500-7, PN-EN 1563:2000
Flange connection: PN-EN 1092-2:1999
Nominal pressure: 1,0/1,6 MPa; PN 10/16

DN	Dn	L	l	n	Weight
65	50	150	18	4	6,90
80	50	200	18	8/4	8,40
	65	200	18	8/4	8,80
100	50	200	18	8/4	9,40
	65	200	18	8/4	9,80
	80	200	18	8	10,20
125	80	200	18	8	13,00
	100	200	18	8	13,40
150	80	200	22	8	14,60
	100	200	22	8	14,80
	125	200	22	8	17,20
200	80	300	22	8(12)/8	22,20
	100	300	22	8(12)/8	22,50
	125	300	22	8(12)/8	23,20
	150	300	22	8(12)/8	23,70
250	80	300	22(26)	12/8	27,10
	100	300	22(26)	12/8	28,30
	150	300	22(26)	12/8	29,50
	200	300	22(26)	12/8(12)	33,00
300	100	300	22(26)	12/8	31,30
	150	300	22(26)	12/8	36,70
	200	300	22(26)	12/8(12)	45,00
	250	300	22(26)	12	50,00

Coating: bitumen paint, epoxy paint 250-360 µm
Material: cast iron EN-GJL-250, PN-EN 1561:2000
Flange connection: PN-EN 1092-2:1999
Nominal pressure: 1,0 MPa; PN 10

DN	dn	L	l	n	Weight
80	50	160	18	4(8)/4	7,70
100	50	160	18	8/4	9,00
	80	160	18	8/4(8)	11,50
150	80	160	22	8/4(8)	15,00
	100	160	22	8	16,00
200	80	160	22	8/4(8)	20,50
	100	160	22	8	21,50
	150	160	22	8	22,50

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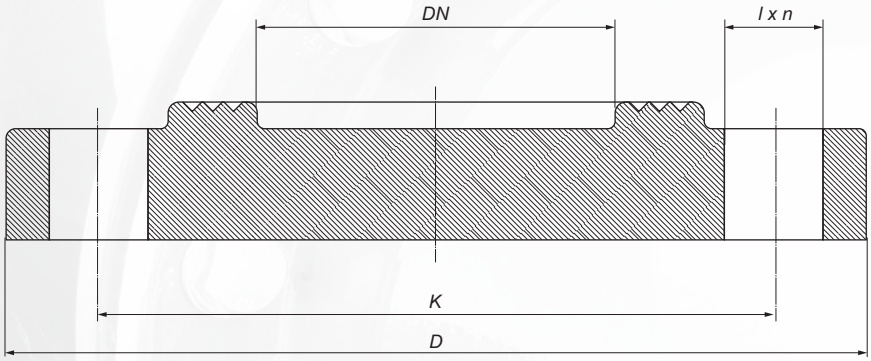
Flanged reducer FFR
PN 10 and ductile iron PN 10/16

Blind flange X
PN 10 and ductile iron PN 10/16



It is used to blind a water supply systems.

Coating: bitumen paint, epoxy paint 250-360 µm
Material: cast iron EN-GJL-250, PN-EN 1561:2000
Flange connection: PN-EN 1092-2:1999
Nominal pressure: 1,0 MPa; PN 10

DN	K	D	l	n	Weight
50	125	165	18	4	2,20
80	160	200	18	4 (8)	3,00
100	180	220	18	8	3,80
150	240	285	22	8	6,60
200	295	340	22	8	10,50
250	350	400	22	12	16,00
300	400	445	22	12	22,50

Coating: epoxy paint 250-360 µm
Material: ductile iron, EN-GJS-500-7, PN-EN 1563:2000
Flange connection: PN-EN 1092-2:1999
Nominal pressure: 1,0/1,6 MPa; PN 10/16

DN	K	D	l	n	Weight
50	125	165	18	4	2,40
65	145	185	18	4	3,20
80	160	200	18	8	3,90
100	180	220	18	8	4,80
125	210	250	18	8	6,20
150	240	285	22	8	8,10
200	295	340	22	8(12)	11,40
250	350(355)	400	22(26)	12	16,60
300	400(410)	445	22(26)	12	23,50

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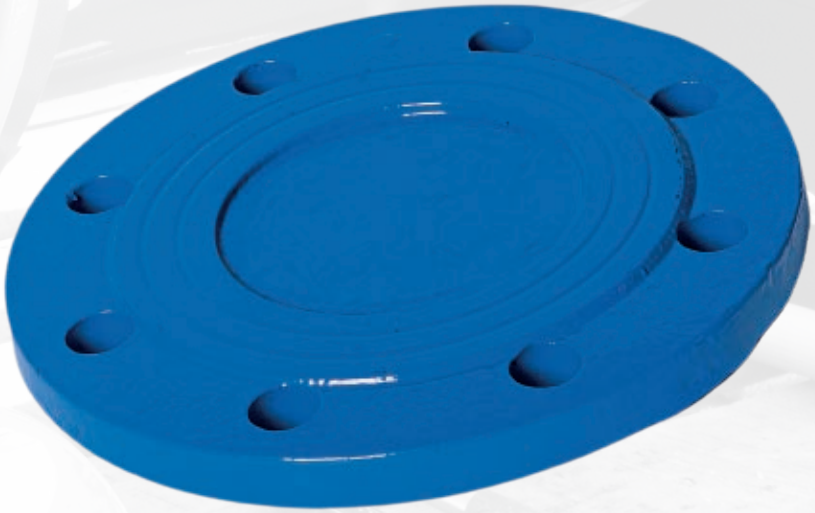
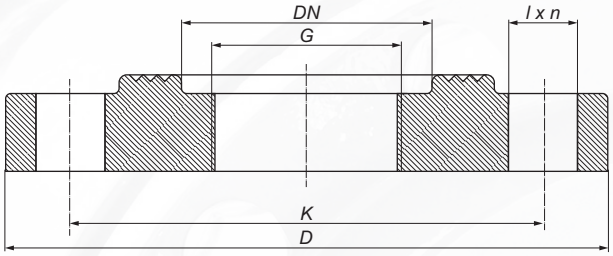
Blind flange X
PN 10 and ductile iron PN 10/16



Threaded flange XG PN 10



It is used to transition from a flanged connection to a threaded connection.

Coating:
bitumen paint,
epoxy paint 250-360 µm

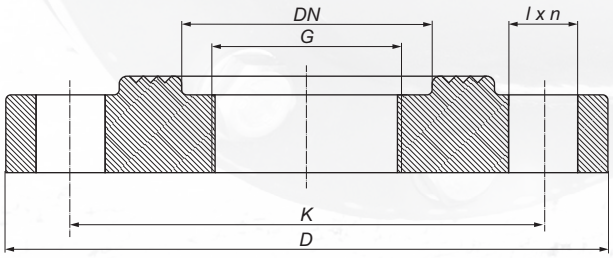
Material:
cast iron EN-GJL-250,
PN-EN 1561:2000

Flange connection:
PN-EN 1092-2:1999

Nominal pressure:
1,0 MPa; PN 10

DN	G	K	D	l	n	Weight
50	3/4", 1", 1 1/4", 1 1/2", 2"	125	165	18	4	1,70
80	3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2", 3"	160	200	18	4(8)	2,75
100	3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2", 3", 4"	180	220	18	8	3,60
150	3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2", 3", 4", 5",6"	240	285	22	8	6,00
200	3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2", 3", 4", 5", 6", 8"	295	340	22	8	10,00
250	3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2", 3", 4", 5", 6", 8", 10"	350	400	22	12	15,50
300	3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2", 3", 4", 5", 6", 8", 10", 12"	400	445	22	12	22,00

Threaded flange XG ductile iron PN 10/16



It is used to transition from a flanged connection to a threaded connection.

Coating:
epoxy paint 250-360 µm

Material:
ductile iron, EN-GJS-500-7,
PN-EN 1563:2000

Flange connection:
PN-EN 1092-2:1999

Nominal pressure:
1,0/1,6 MPa; PN 10/16

DN	G	K	D	l	n	Weight
50	3/4", 1", 1 1/4", 1 1/2", 2"	125	165	18	4	2,20
65	3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2"	145	185	18	4	2,70
80	3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2", 3"	160	200	18	8	3,30
100	3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2", 3", 4"	180	220	18	8	3,70
125	3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2", 3", 4", 5"	210	250	18	8	6,20
150	3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2", 3", 4", 5", 6"	240	285	22	8	7,10
200	3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2", 3", 4", 5", 6", 8"	295	340	22	8(12)	11,00
250	3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2", 3", 4", 5", 6", 8", 10"	350(355)	400	22(26)	12	16,00
300	3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2", 3", 4", 5", 6", 8", 10", 12"	400(410)	445	22(26)	12	23,00

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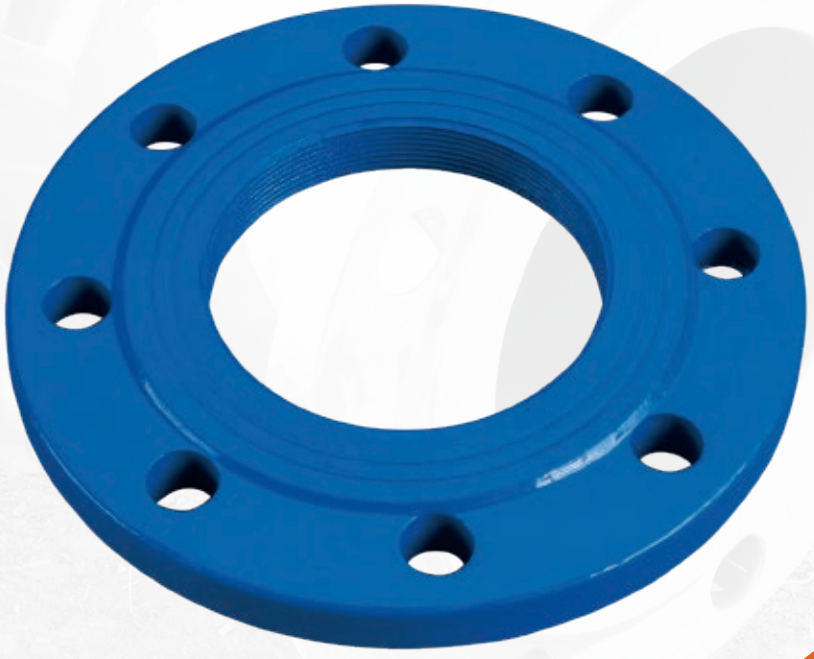
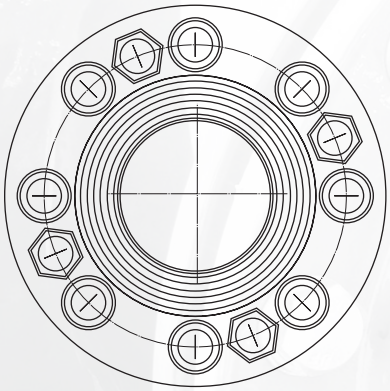
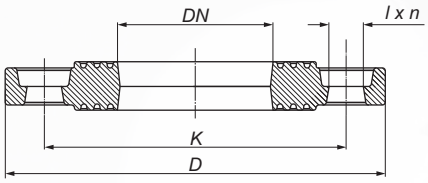
Threaded flange XG PN 10

Threaded flange XG ductile iron PN 10/16



Adaptive flange FKA 4/8 PN 10



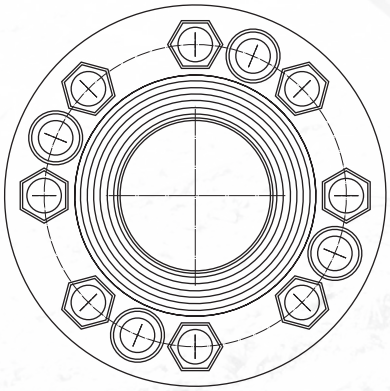


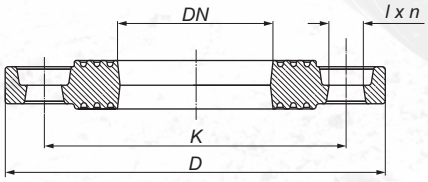
Coating: bitumen paint, epoxy paint 250-360 µm
Material: cast iron EN-GJL-250, PN-EN 1561:2000
Flange connection: PN-EN 1092-2:1999
Nominal pressure: 1,0 MPa; PN 10

It is used to install water supply fittings in a situation of incompatible number of holes on the connected flanges.

DN	K	D	l	n	Weight
80	160	200	18	4/8	3,00

Adaptive flange FKA 4/8 ductile iron PN 10/16





Coating: epoxy paint 250-360 µm
Material: ductile iron, EN-GJS-500-7, PN-EN 1563:2000
Flange connection: PN-EN 1092-2:1999
Nominal pressure: 1,0/1,6 MPa; PN 10/16

It is used to install water supply fittings in a situation of incompatible number of holes on the connected flanges.

DN	K	D	l	n	Weight
80	160	200	18	4/8	3,00

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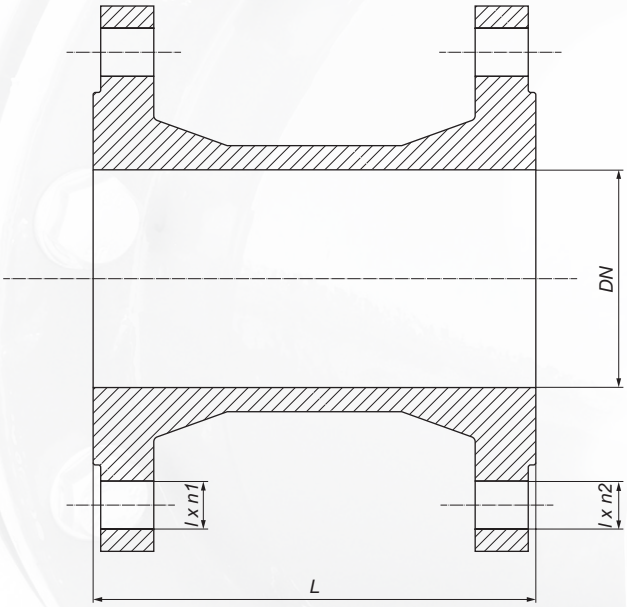
Adaptive flange FKA 4/8 PN 10

Adaptive flange FKA 4/8 ductile iron PN 10/16

Adaptive flange FFA PN 10/PN 16



It is used to install water supply fittings in a situation of incompatible number of holes on the connected flanges.

DN	L	Number of holes	l x n1	l x n2	Weight
80	100	4/8	18 x 4	18 x 8	8,20
100	200	4/8	18 x 4	18 x 8	13,00
200	150	8/12	22 x 8	22 x 12	25,00

Coating: bitumen paint, epoxy paint 250-360 µm
Material: cast iron EN-GJL-250, PN-EN 1561:2000
Nominal pressure: 1,0 MPa; PN 10

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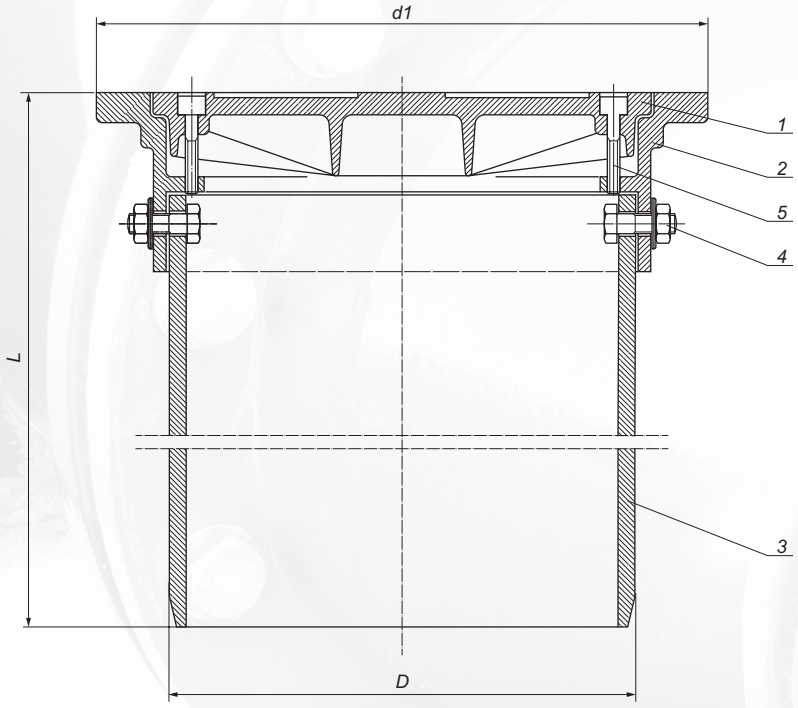
Adaptive flange FFA PN 10/PN 16

Telescope 160 with cover and grate



No.	Description	Material
1.	Lid	EN-GJL-250
2.	Body	EN-GJL-250
3.	Pipe	PVC 160
4.	Screw, pad, nut	Galvanized steel 8.8 class
5.	Allen screw	Galvanized steel 8.8 class/ Stainless steel A2

No. 1., 2. bitumen paint.

It is used as a top of inspection chamber size 160/200. Based on a smooth pipe Dn 160 and connected to the rising smooth pipe Dn 200 by the MW 160/200 rubber adaptor.

Lid type	Load	Class	D	L	d1	Weight
Cover	1,5 T	A 15	160	550	250	8,00
	40 T	D 400	160	550	250	19,00
Grate	1,5 T	A 15	160	550	250	7,80

Norm: PN-EN 124-2

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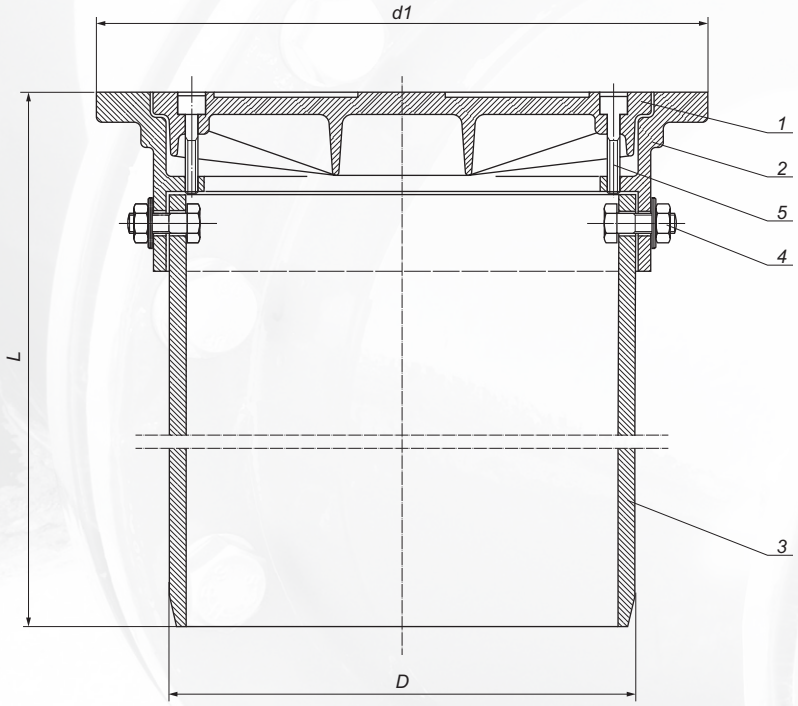
Telescope 160 with cover and grate

Telescope 250 with cover and grate



It is used as a top of inspection chamber size 250/315. Based on a smooth pipe Dn 250 and connected to the rising smooth pipe Dn 315 by the TW 250/315 rubber adaptor.

No.	Description	Material
1.	Lid*	EN-GJL-250
2.	Body	EN-GJL-250
3.	Pipe	PVC 250
4.	Screw, pad, nut	Galvanized steel 8.8 class
5.	Allen screw	Galvanized steel 8.8 class/ Stainless steel A2

Lid type	Load	Class	D	L	d1	Weight
Cover	1,5 T	A 15	250	550	320	12,80
	12,5 T	B 125	250	550	320	15,20
	40 T	D 400	250	550	320	16,10
Grate	1,5 T	A 15	250	550	320	12,60
	12,5 T	B 125	250	550	320	15,00
	40 T	D 400	250	550	320	16,00

** D 400 class - ductile iron EN-GJS-500-7, PN-EN 1563:2000.*
No. 1., 2. bitumen paint.

Norm: PN-EN 124-2

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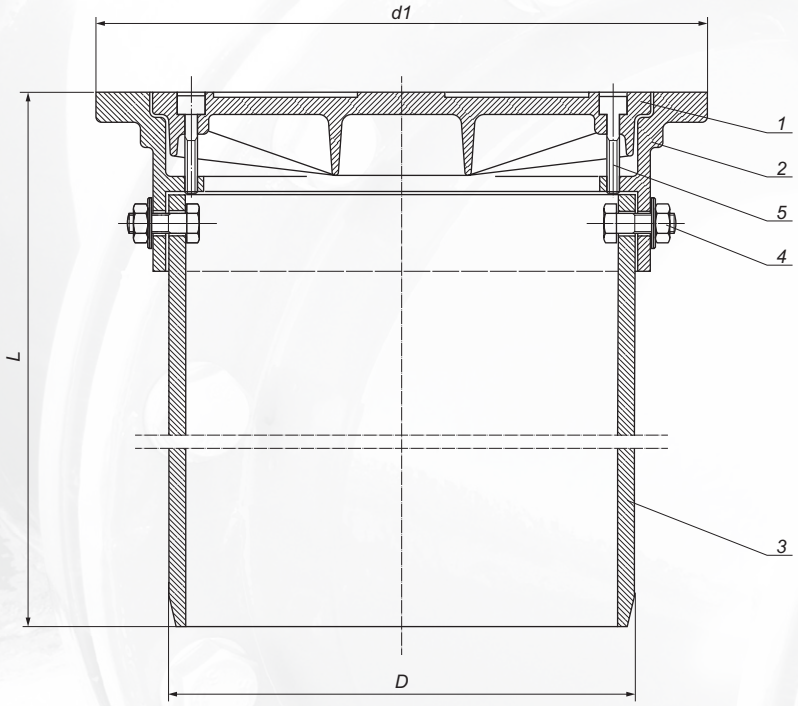
Telescope 250 with cover and grate

Telescope 290 with cover and grate



It is used as a top of inspection chamber size 315, 400 and 425.
The telescope is mounted on a rising pipe:
corrugated 315, smooth 400, corrugated 425
by the rubber adaptors:
MOW 290/315, MGW 290/400, ZFW 290/425.

No.	Description	Material
1.	Lid*	EN-GJL-250
2.	Body	EN-GJL-250
3.	Pipe	PVC 290
4.	Screw, pad, nut	Galvanized steel 8.8 class
5.	Allen screw	Galvanized steel 8.8 class/ Stainless steel A2

** C 250, D 400 class - ductile iron EN-GJS-500-7, PN-EN 1563:2000.*
No. 1., 2. bitumen paint.

Lid type	Load	Class	D	L	d1	Weight
Cover	1,5 T	A 15	290	550	355	16,00
	12,5 T	B 125	290	550	355	23,00
	25 T	C 250	290	550	355	24,00
	40 T	D 400	290	550	355	24,00
Grate	1,5 T	A 15	290	550	355	15,50
	12,5 T	B 125	290	550	355	22,50
	25 T	C 250	290	550	355	23,50
	40 T	D 400	290	550	355	23,50

Norm: PN-EN 124-2

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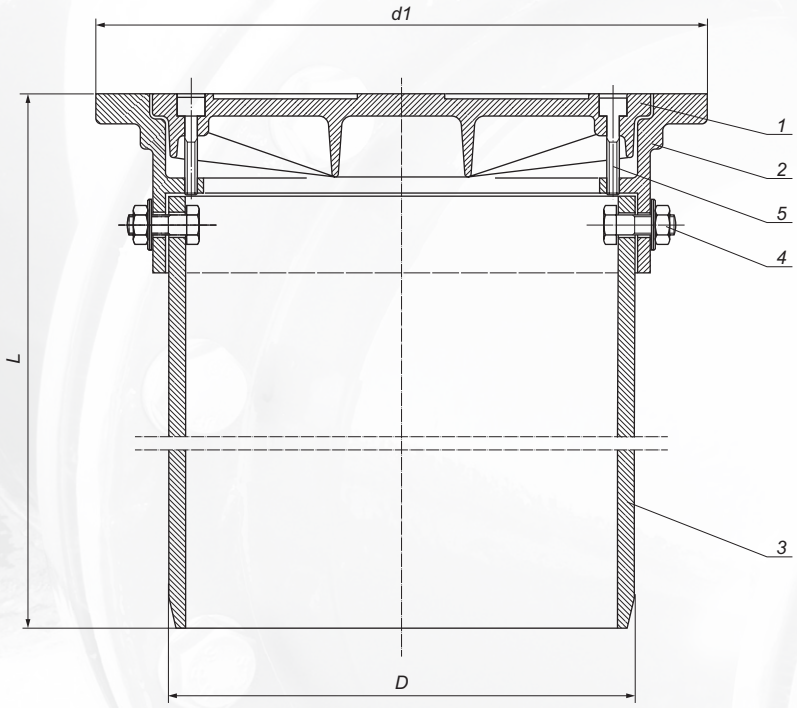
Telescope 290 with cover and grate

Telescope 315 with cover and grate



It is used as a top of inspection chamber size 315 and 400.
The telescope is mounted on a rising pipe:
corrugated 315, smooth 400, corrugated 400
by the rubber adaptors:
OW 315/315, GW 315/400, DW 315/400, WK 315/400.

No.	Description	Material
1.	Lid*	EN-GJL-250
2.	Body	EN-GJL-250
3.	Pipe	PVC 315
4.	Screw, pad, nut	Galvanized steel 8.8 class
5.	Allen screw	Galvanized steel 8.8 class/ Stainless steel A2

** C 250, D 400 class - ductile iron EN-GJS-500-7, PN-EN 1563:2000.*
No. 1., 2. bitumen paint.

Lid type	Load	Class	D	L	d1	Weight
Cover	1,5 T	A 15	315	550	355	16,00
	12,5 T	B 125	315	550	355	23,00
	25 T	C 250	315	550	355	24,00
	40 T	D 400	315	550	355	24,00
Grate	1,5 T	A 15	315	550	355	15,50
	12,5 T	B 125	315	550	355	22,50
	25 T	C 250	315	550	355	23,50
	40 T	D 400	315	550	355	23,50

Different lenght can be made according to the order.
B 125, C 250, D 400 class available also with round body.

Norm: PN-EN 124-2

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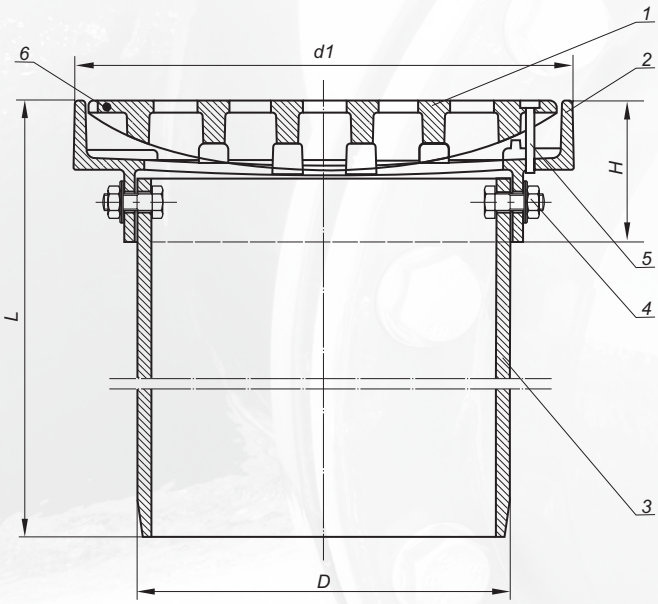
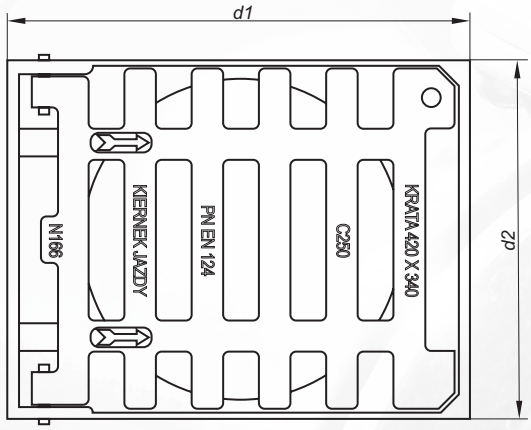
Telescope 315 with cover and grate

Telescope 315 with grate BK 166





No.	Description	Material
1.	Lid*	EN-GJL-250
2.	Body	EN-GJL-250
3.	Pipe	PVC 315
4.	Screw, pad, nut	Galvanized steel 8.8 class
5.	Allen screw	Galvanized steel 8.8 class/ Stainless steel A2
6.	Hinge	Galvanized steel 8.8 class/ Stainless steel A2

** D 400 class - ductile iron EN-GJS-500-7, PN-EN 1563:2000. No. 1., 2. bitumen paint.*

It is used as a top of inspection chamber size 315, 400. The telescope is mounted on a 315 corrugated rising pipe, smooth 400, corrugated 400 by the rubber adaptors: OW 315/315, GW 315/400, DW 315/400, WK 315/400. Hinged groove to open the grille to an angle of 100°.

Load	Class	D	L	d1	d2	H	Weight
25 T	C 250	315	550	420	340	112	34,80
40 T	D 400	315	550	420	340	112	34,90

Norm: PN-EN 124-2

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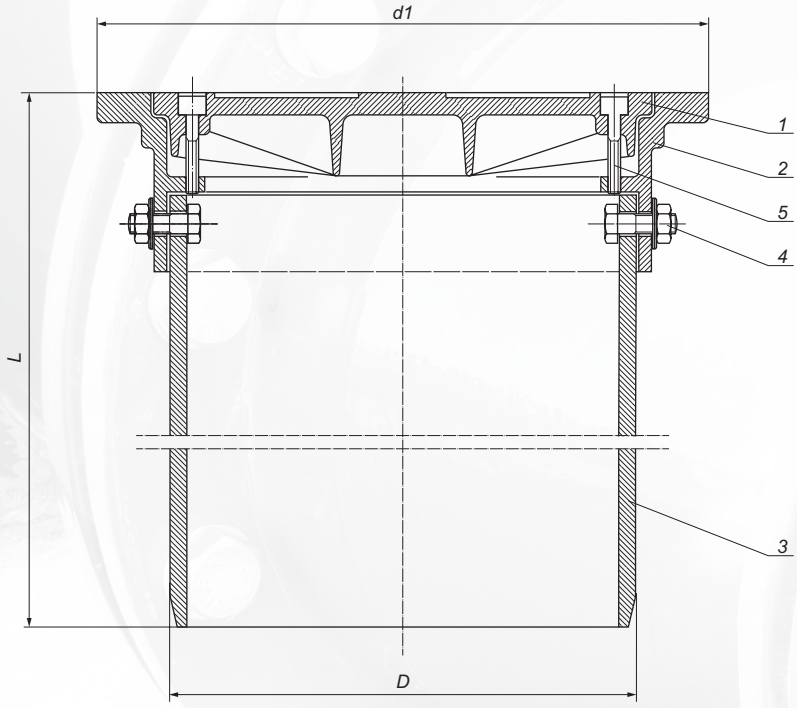
Telescope 315 with grate BK 166

Telescope 425 with cover and grate



It is used as a top of inspection chamber size 425.
The telescope is mounted on a 425 corrugated rising pipe, by the rubber adaptors:
KW 400/425, KWN 400/425 and WW 400/425.

No.	Description	Material
1.	Lid*	EN-GJL-250
2.	Body	EN-GJL-250
3.	Pipe	PVC 396
4.	Screw, pad, nut	Galvanized steel 8.8 class
5.	Allen screw	Galvanized steel 8.8 class/ Stainless steel A2

** C 250, D 400 class - ductile iron EN-GJS-500-7, PN-EN 1563:2000.*
No. 1., 2. bitumen paint.

Lid type	Load	Class	D	L	d1	Weight
Cover	1,5 T	A 15	396	550	500	30,00
	12,5 T	B 125	396	550	500	38,00
	25 T	C 250	396	550	500	40,00
	40 T	D 400	396	550	500	40,00
Grate	1,5 T	A 15	396	550	500	29,50
	12,5 T	B 125	396	550	500	37,50
	25 T	C 250	396	550	500	39,50
	40 T	D 400	396	550	500	39,50

Norm: PN-EN 124-2

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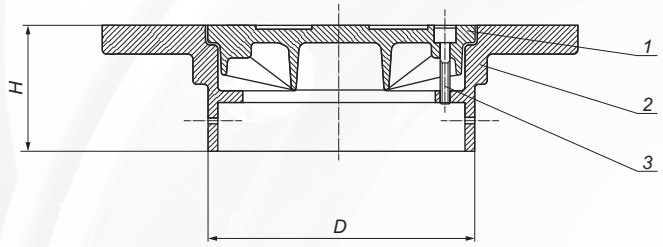
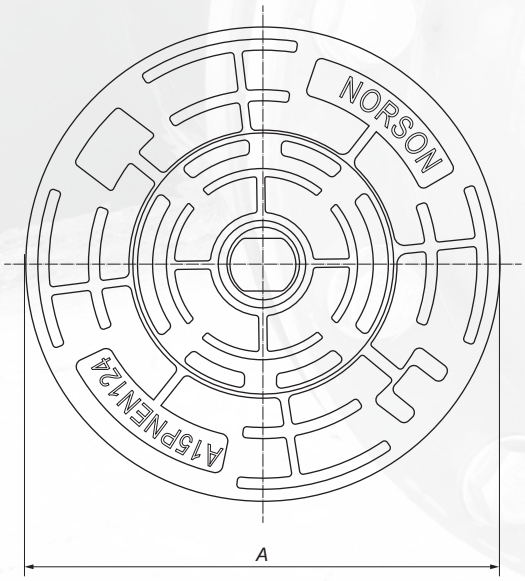
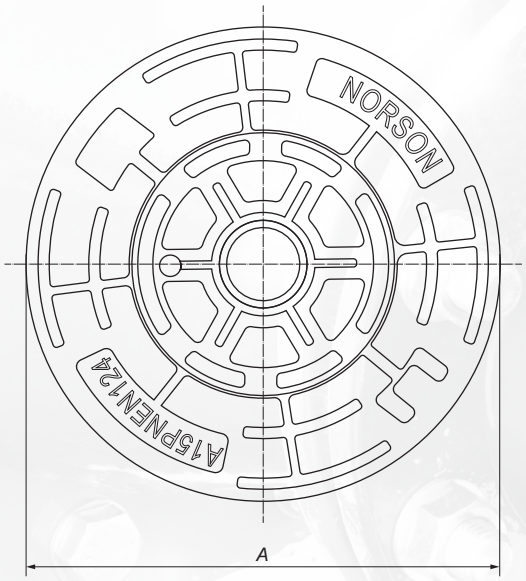
Telescope 425 with cover and grate

Cover and grate for 160 pipe







No.	Description	Material
1.	Lid	EN-GJL-250
2.	Body	EN-GJL-250
3.	Screw	Galvanized steel 8.8 class/ Stainless steel A2

Coating: bitumen paint.

Lid type	Load	Class	A	D	H	Weight
Cover	1,5 T	A 15	245	150	60	7,00
	40 T	D 400	245	150	85	18,00
Grate	1,5 T	A 15	245	150	60	6,80

Norm: PN-EN 124-2

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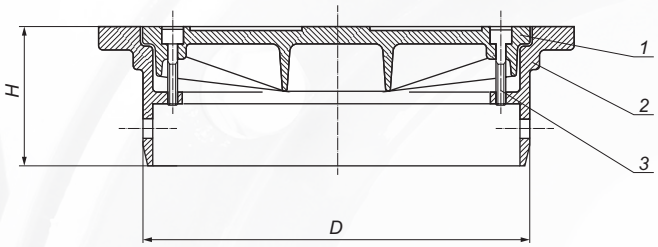
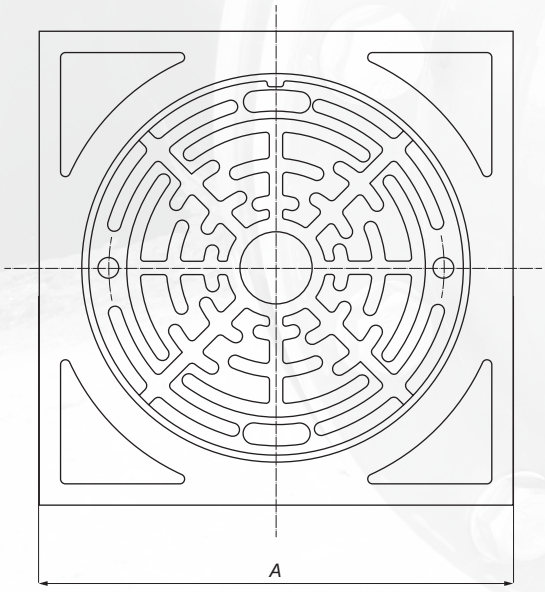
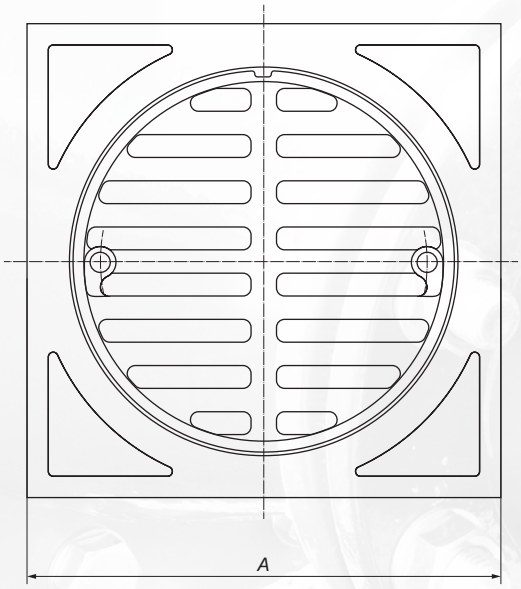
Cover and grate for 160 pipe

Cover and grate for 250 pipe







No.	Description	Material
1.	Lid*	EN-GJL-250
2.	Body	EN-GJL-250
3.	Allen screw	Galvanized steel 8.8 class/ Stainless steel A2

** D 400 class - ductile iron EN-GJS-500-7, PN-EN 1563:2000. Coating: bitumen paint.*

Lid type	Load	Class	A	D	H	Weight
Cover	1,5 T	A 15	320	260	320	9,80
	12,5 T	B 125	320	260	320	12,20
	40 T	D 400	320	260	320	13,10
Grate	1,5 T	A 15	320	260	320	9,60
	12,5 T	B 125	320	260	320	12,00
	40 T	D 400	320	260	320	13,00

Norm: PN-EN 124-2

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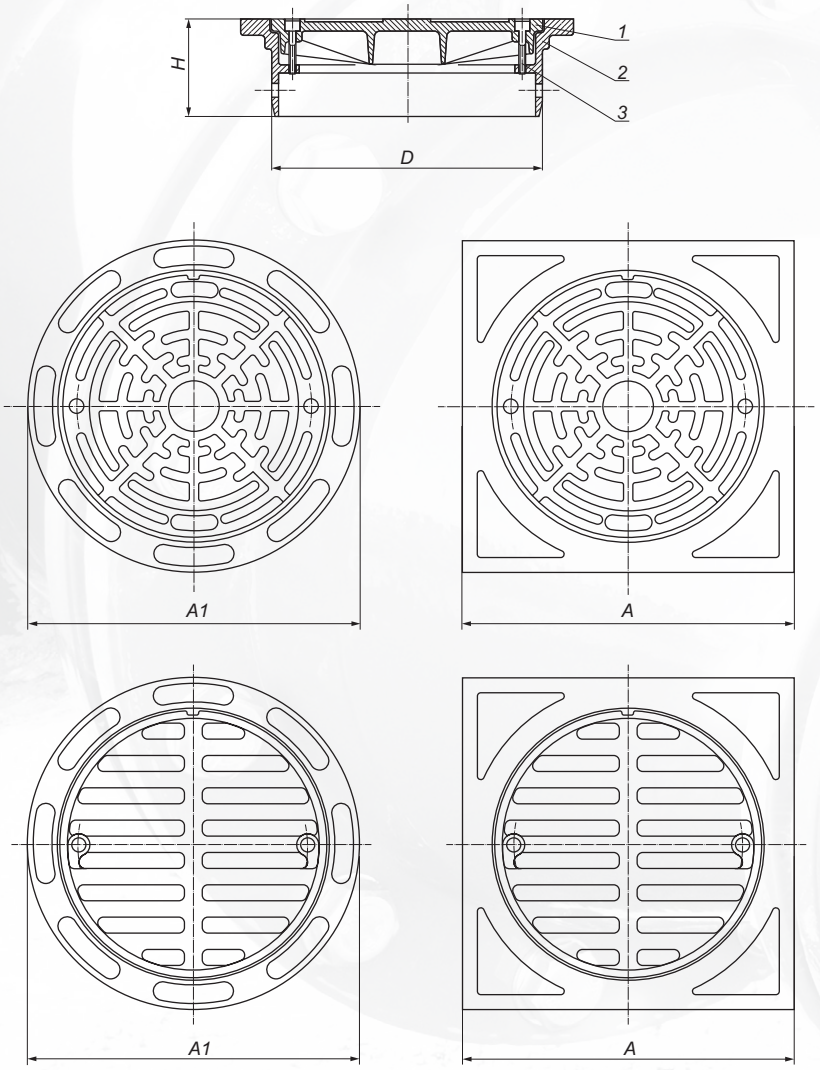
Cover and grate for 250 pipe

Cover and grate for 315 pipe



No.	Description	Material
1.	Lid*	EN-GJL-250
2.	Body	EN-GJL-250
3.	Allen screw	Galvanized steel 8.8 class/ Stainless steel A2

** C 250, D 400 class - ductile iron EN-GJS-500-7, PN-EN 1563:2000.*
B 125, C 250, D 400 class available with round body.
Coating: bitumen paint.

Lid type	Load	Class	A1	A	D	H	Weight
Cover	1,5 T	A 15	-	355	300	60	11,50
	12,5 T	B 125	410	355	300	90	18,00
	25 T	C 250	410	355	300	90	19,00
	40 T	D 400	410	355	300	90	19,00
Grate	1,5 T	A 15	-	355	300	60	11,00
	12,5 T	B 125	410	355	300	90	17,50
	25 T	C 250	410	355	300	90	18,50
	40 T	D 400	410	355	300	90	18,50

Norm: PN-EN 124-2

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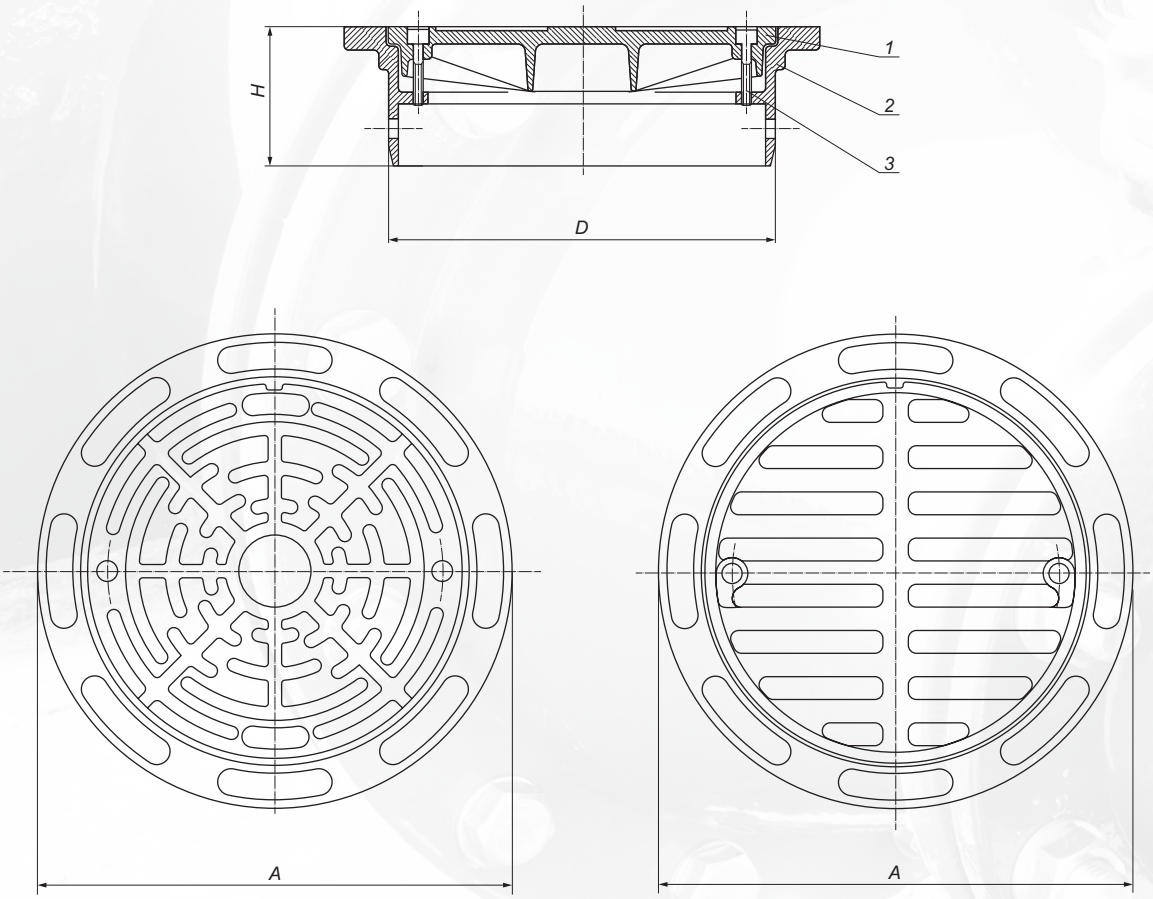
Cover and grate for 315 pipe

Cover and grate for 425 pipe



No.	Description	Material
1.	Lid*	EN-GJL-250
2.	Body	EN-GJL-250
3.	Allen screw	Galvanized steel 8.8 class/ Stainless steel A2

** C 250, D 400 class - ductile iron EN-GJS-500-7, PN-EN 1563:2000. Coating: bitumen paint.*

Lid type	Load	Class	A	D	H	Weight
Cover	1,5 T	A 15	500	416	100	23,00
	12,5 T	B 125				31,00
	25 T	C 250				33,00
	40 T	D 400				33,00
Grate	1,5 T	A 15	500	416	100	22,50
	12,5 T	B 125				30,50
	25 T	C 250				32,50
	40 T	D 400				32,50

Norm: PN-EN 124-2

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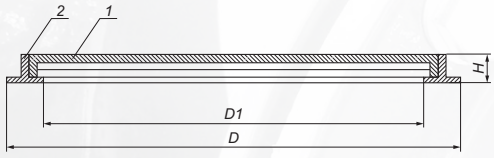
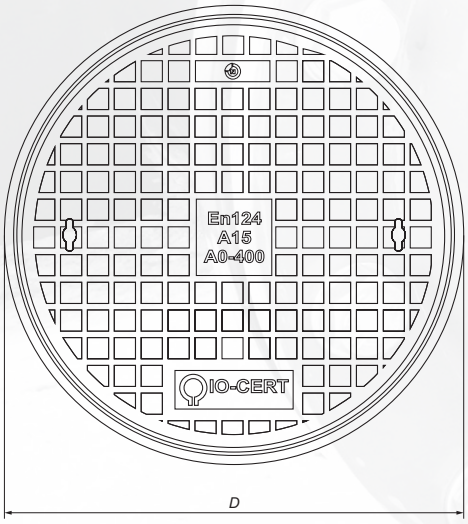
Cover and grate for 425 pipe

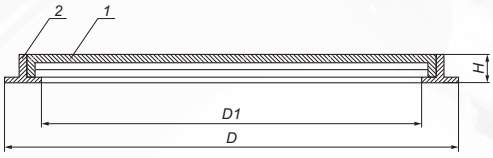
Cover OP 400, OP 500, OP 600 and AK 400, AK 500, AK 600

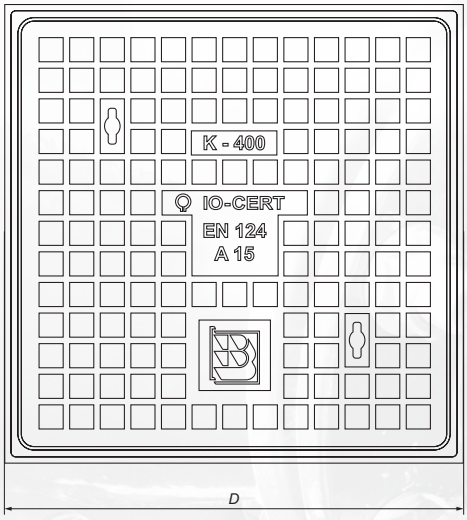
OP type





AK type





No.	Description	Material
1.	Lid	EN-GJL-250
2.	Body	EN-GJL-250

Coating: bitumen paint

Type	Load	Class	D	D1	H	Weight
OP 400	1,5 T	A 15	480	400	50	20,00
OP 500	1,5 T	A 15	580	500	50	29,00
OP 600	1,5 T	A 15	660	600	50	39,00

Norm: PN-EN 124-2

Type	Load	Class	D	D1	H	Weight
AK 400	1,5 T	A 15	480	400	50	29,00
AK 500	1,5 T	A 15	580	500	50	38,00
AK 600	1,5 T	A 15	660	600	50	55,00

Norm: PN-EN 124-2

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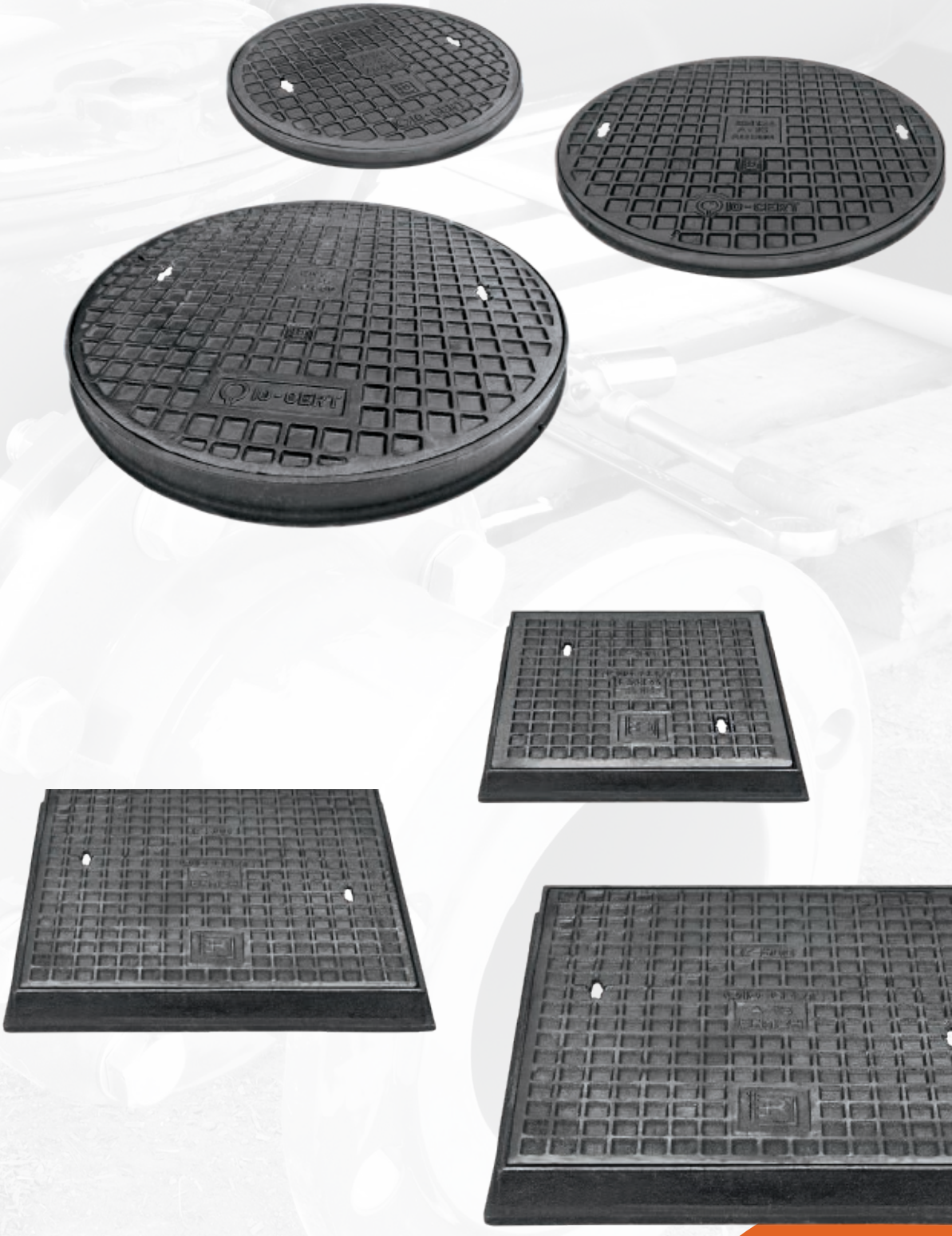
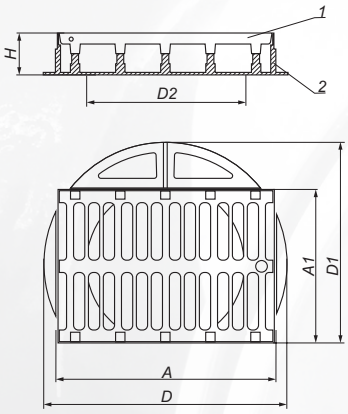
Cover OP 400, OP 500, OP 600 and AK 400, AK 500, AK 600



Street grate



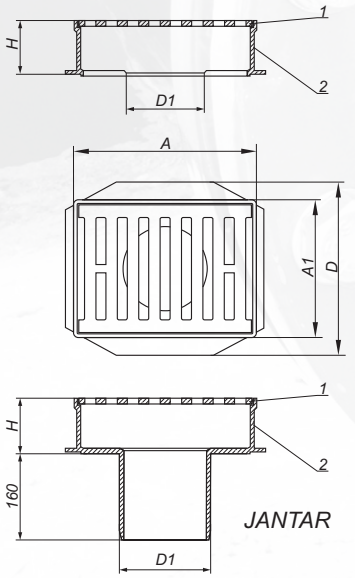
Grate BK 67

No.	Description	Material
1.	Lid	EN-GJL-250/ EN-GJS-500-7
2.	Body	EN-GJL-250/ EN-GJS-500-7

Coating: bitumen paint

Load	Class	A	A1	D	D1	D2	H	Weight
25 T	C 250	620	428	696	562	452	115	60,00/47,00
40 T	D 400	620	428	696	562	452	115	61,00/47,50

Norm: PN-EN 124-2



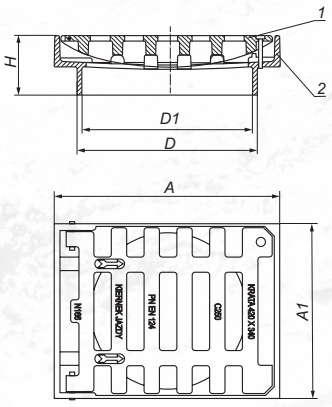
Grate BK 71

No.	Description	Material
1.	Lid	EN-GJL-250
2.	Body	EN-GJL-250

Coating: bitumen paint

Load	Class	A	A1	D	D1	H	Weight
1,5 T	A 15	320	225	255	150	80	19,00
1,5 T JANTAR	A 15	320	225	255	160	80	21,00

Norm: PN-EN 124-2



Grate BK 166

No.	Description	Material
1.	Lid*	EN-GJL-250
2.	Body	EN-GJL-250

* D 400 class - ductile iron EN-GJS-500-7, PN-EN 1563:2000.
Coating: bitumen paint

Load	Class	A	A1	D	D1	H	Weight
25 T	C 250	420	340	333	315	112	29,80
40 T	D 400	420	340	333	315	112	29,90

Norm: PN-EN 124-2

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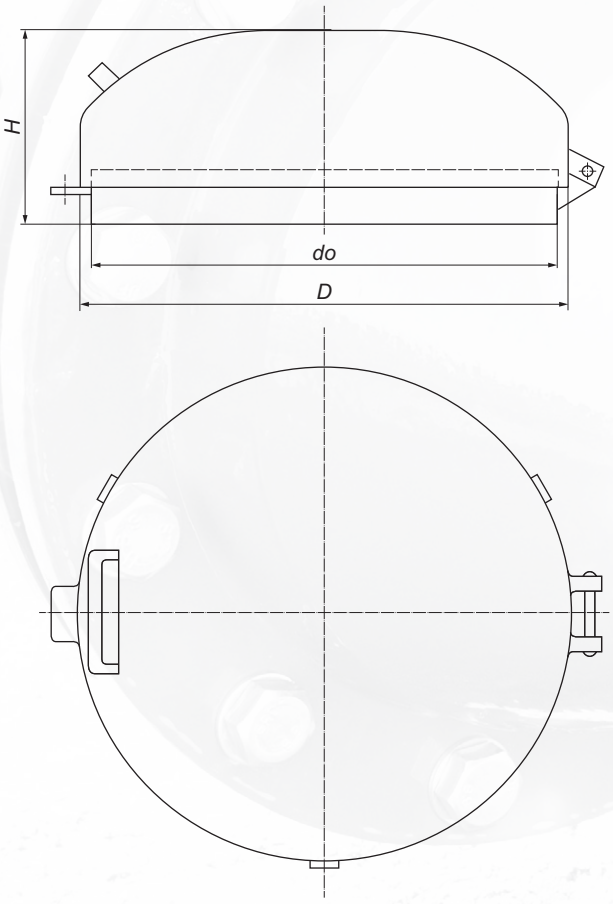
Grate BK 67

Grate BK 71

Grate BK 71 – JANTAR type

Grate BK 166

Steel cover Ø 600



It is used as a top of water-meter chambers.
Equipped with additional lock system.

Coating: bitumen paint
Material: steel St 2

H	do	D	H	Weight
240	580	610	120	14,00

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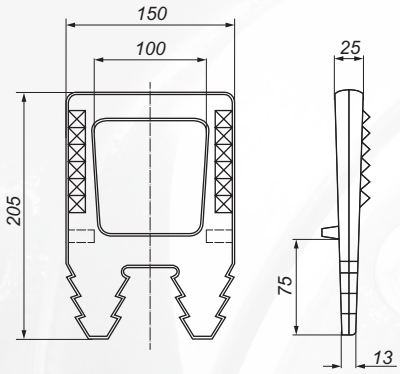
Steel cover Ø 600

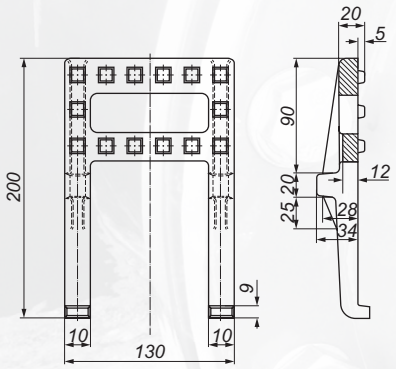
Chamber step



Chamber step 1211 for hammering

Coating: bitumen paint
Materiał: cast iron EN-GJL-250, PN-EN 1561:2000
Weight: 2,00 kg

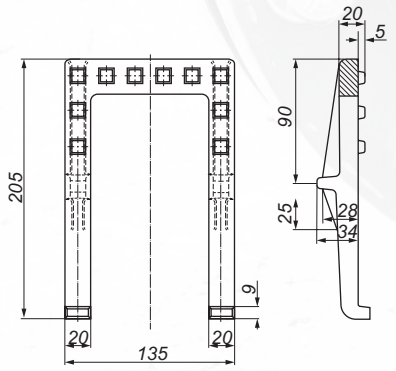
Norm: PN-EN 13101



Chamber step medium for embedding

Coating: bitumen paint
Materiał: cast iron EN-GJL-250, PN-EN 1561:2000
Weight: 1,60 kg

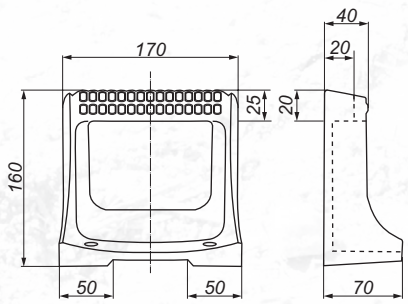
Norm: PN-EN 13101



Chamber step (ductile iron) for embedding

Coating: bitumen paint
Material: ductile iron PN-GJS-500-7, PN-EN 1563:2000
Weight: 1,50 kg

Norm: PN-EN 13101



Chamber step 1212G for screwing

Coating: bitumen paint
Materiał: cast iron EN-GJL-250, PN-EN 1561:2000
Weight: 2,60 kg

Norm: PN-EN 13101

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Chamber step 1211
for hammering

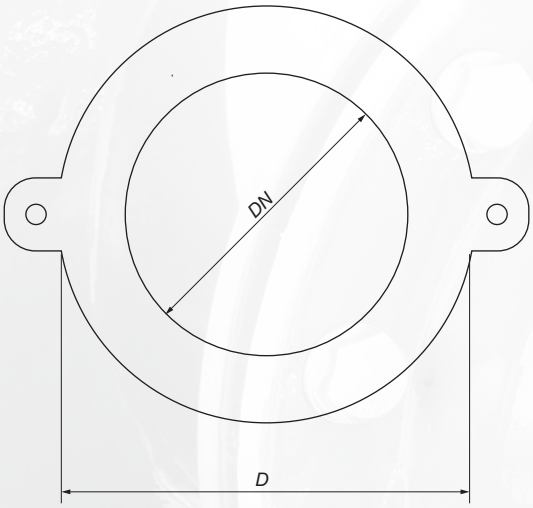
Chamber step medium
for embedding

Chamber step (ductile iron)
for embedding

Chamber step 1212G
for screwing

Water and sewage system gasket

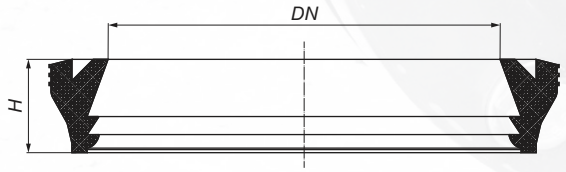
Flat gaskets



No.	DN	D
1.	40	85
2.	50	85
3.	65	115
4.	80	135
5.	100	155
6.	125	175
7.	150	210
8.	200	260
9.	250	300
10.	300	360
11.	400	480
12.	500	570
13.	600	785

Material: EPDM
Norm: PN-EN 681-1:2002
Gaskets with a metal insert on request.

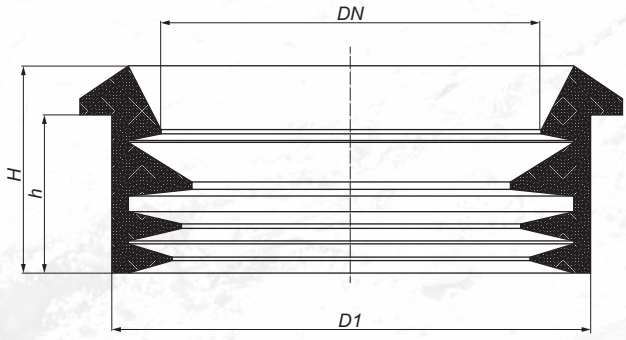
PVC pressure pipe gaskets



No.	DN	H
1.	90	20
2.	110	22
3.	160	26
4.	225	30

Material: EPDM
Norm: PN-EN 681-1:2002

In-situ gaskets



No.	DN	D1	H	h
1.	110	142	65	50
2.	160	190	65	50
3.	200	233	65	50
4.	250	287	56	50
5.	315	351	65	50

Material: EPDM
Norm: PN-EN 681-1:2002

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Water and sewage system gasket

Flat gaskets

PVC pressure pipe gaskets

In-situ gaskets

Gasket for sewage chamber

No.	Type	Telescopic pipe/rising pipe
1.	MW	160/200 smooth pipe
2.	TW	250/315 smooth pipe
3.	MOW	290/315 corrugated pipe
4.	MGW	290/400 smooth pipe
5.	MFW	290/425 corrugated pipe
6.	OW	315/315 corrugated pipe
7.	GW	315/400 smooth pipe
8.	DW	315/400 corrugated pipe
9.	WK	315/400 corrugated pipe
10.	ZW	315/425 corrugated pipe
11.	ZWN	315/425 corrugated pipe
12.	KW	400/425 corrugated pipe
13.	KWN	400/425 corrugated pipe
14.	WW	400/425 corrugated pipe

Material: EPDM
Norm: PN-EN 681-1:2002

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Gasket for sewage chamber

Accessories

1. Warning tapes

No.	Description	Material	Index
1.	Blue tape	Polyethylene	1-414 000 001 00
2.	Brown tape		1-414 000 002 01
3.	Yellow tape		1-414 000 006 01
4.	Blue tape with metal insert	Polyethylene/ Stainless steel	1-414 000 003 00
5.	Brown tape with metal insert		1-414 000 004 00
6.	Yellow tape with metal insert		1-414 000 007 00
7.	White-red tape	Polyethylene	1-414 000 005 00

It is possible to make an inscription on tapes: WATER, SEWERAGE, GAS.

2. Marker plates, posts

No.	Description	Material	Index
1.	Plate „H”	Steel St 2	1-415 000 001 00
2.	Plate „H-100”		1-415 000 101 00
3.	Plate „Z”		1-415 000 002 00
4.	Plate „D”		1-415 000 003 00
5.	Plate „K”		1-415 000 004 00
6.	Plate „GAZ”		1-415 000 008 00
7.	Plate „Z” GAZ		1-415 000 009 00
8.	Single plate post		1-415 000 007 00
9.	Plate x 1		1-415 000 005 00
10.	Plate x 2		1-415 000 006 00

3. Screw kits (screw, pad, nut)

No.	Description	Material	Index
1.	M 16/70 (4 pcs.)	Galvanized steel 8.8 class	1-416 004 016 70
2.	M 16/80 (4 pcs.)		1-416 004 016 80
3.	M 16/90 (4 pcs.)		1-416 004 016 90
4.	M 16/70 (8 pcs.)		1-416 008 016 70
5.	M 16/80 (8 pcs.)		1-416 008 016 80
6.	M 16/90 (8 pcs.)		1-416 008 016 90
7.	M 20/90 (8 pcs.)		1-416 008 020 90
8.	M 20/90 (12 pcs.)		1-416 012 020 90
9.	M 24/90 (12 pcs.)		1-416 012 024 90
10.	M 24/120 (12 pcs.)		1-416 012 024 12

4. Sealing kits (gasket, screw, pad, nut)

No.	Description		Material	Index
1.	DN 50	M 16/70	Galvanized steel 8.8 class/ EPDM /NBR	1-417 000 000 50
2.	DN 65	M 16/70		1-417 000 000 65
3.	DN 80(4)	M 16/70		1-417 000 000 84
4.	DN 80(4)	M 16/90		1-417 090 000 84
5.	DN 80(8)	M 16/70		1-417 000 000 88
6.	DN 80(8)	M 16/90		1-417 090 000 88
7.	DN 100	M 16/70		1-417 000 001 00
8.	DN 100	M 16/90		1-417 090 001 00
9.	DN 125	M 16/70		1-417 000 001 25
10.	DN 125	M 16/90		1-417 090 001 25
11.	DN 150	M 16/70		1-417 000 001 50
12.	DN 150	M 16/90		1-417 090 001 50
13.	DN 200 PN10	M 20/90		1-417 000 002 08
14.	DN 200 PN16	M 20/90		1-417 000 002 12
15.	DN 250 PN10	M 20/90		1-417 000 002 58
16.	DN 250 PN16	M 24/90		1-417 000 002 50
17.	DN 300 PN10	M 20/90		1-417 000 003 08
18.	DN 300 PN16	M 24/90		1-417 000 003 00

Accessories

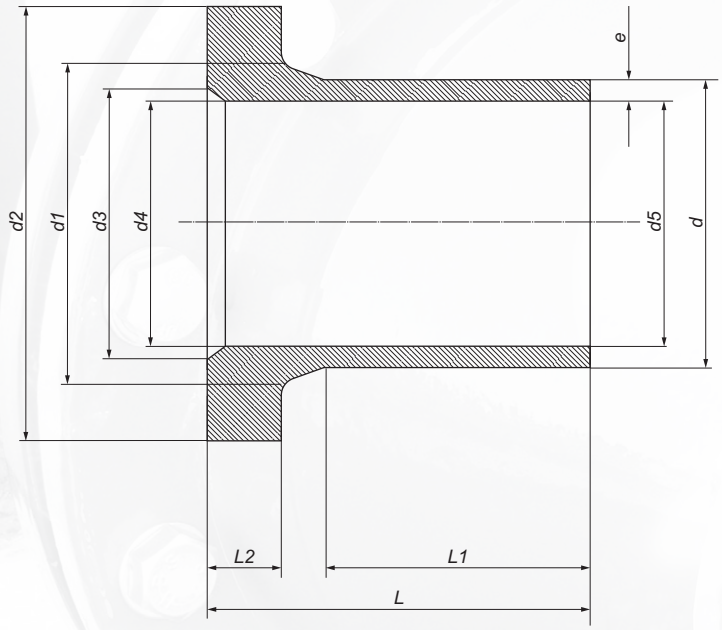
1. Warning tapes

2. Marker plates, posts

3. Screw kits (screw, pad, nut)

4. Sealing kits

Flange adaptor for HDPE pipes SDR 17 PN 10 and SDR 11 PN 16



Material: HDPE
Norm: EN 1220-3 + A1
EN 1555-3 + A1

They are used to make flange connections on polyethylene pipes.

PE 100 SDR17 PN 10

d	d1	d2	d3	d4	d5	L1	L2	L	e	Weight
63	75	102	55	55	55	65	14	95	3,8	0,15
75	89	122	66	66	66	75	16	112	4,5	0,26
90	105	138	78	78	79	85	17	122	5,4	0,35
110	125	158	100	94	96	95	18	138	6,6	0,50
125	132	158	114	108	110	98	25	143	7,4	0,59
140	155	188	127	110	112	100	25	150	8,3	0,76
160	175	212	155	139	141	102	25	155	9,5	1,06
180	180	212	158	158	160	107	30	162	10,7	1,10
200	232	268	203	173	176	115	32	187	11,9	2,30
225	235	268	210	207	210	122	32	190	13,4	2,45
250	285	320	245	216	220	130	35	210	14,8	3,65
280	291	320	265	243	246	140	35	227	16,6	3,82
315	335	370	300	275	277	150	35	231	18,7	4,60

PE 100 SDR11 PN 16

d	d1	d2	d3	d4	d5	L1	L2	L	e	Weight
63	75	102	51	51	51	65	14	95	5,8	0,18
75	89	122	61	61	61	75	16	112	6,8	0,31
90	105	138	78	71	73	85	17	122	8,2	0,41
110	125	158	100	88	90	95	18	138	10,0	0,63
125	132	158	114	100	102	98	25	143	11,4	0,88
140	155	188	127	111	114	100	25	150	12,7	1,12
160	175	212	155	127	130	102	25	155	14,6	1,34
180	180	212	158	145	147	107	30	162	16,4	1,64
200	232	268	203	161	163	115	32	187	18,2	2,90
225	235	268	210	182	184	122	32	190	20,5	3,22
250	285	320	245	200	204	130	35	210	22,7	4,88
280	291	320	265	227	229	140	35	227	25,4	4,95
315	335	370	300	254	257	150	35	231	28,6	6,36

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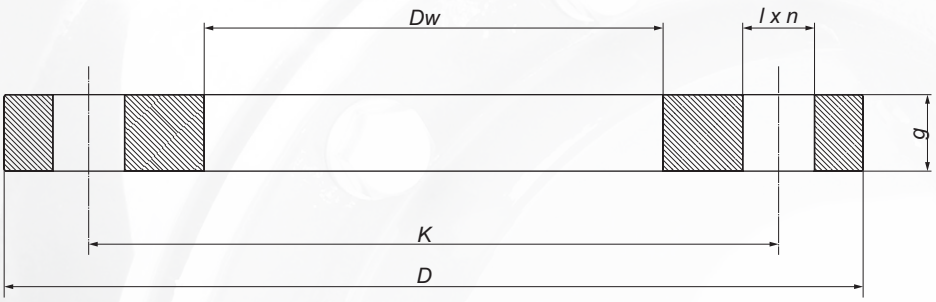
Flange adaptor for HDPE pipes SDR 17 PN 10 and SDR 11 PN 16

Flange backing rings



Steel backing rings for HDPE adaptors for making flange connections on plastic pipelines.

Material: steel S235JRG or similar.
Coating: galvanized surface
Norm: PN-ISO 9624:2001
Nominal pressure: 1,0/1,6 MPa; PN 10/16

Flange backing rings PN 10 and PN 16

Flange DN	PE pipe diameter	Dw	D	K	g	l	n	Weight
50	63	78	165	125	16	18	4	1,90
65	75	92	185	145	16	18	4	2,40
80	90	108	200	160	18	18	8	2,80
100	110	128	220	180	18	18	8	3,20
100	125	135	220	180	18	18	8	3,00
125	140	158	250	210	18	18	8	3,80
150	160	178	285	240	18	22	8	5,00(5,60)
150	180	186	285	240	18	22	8	4,60(5,10)
200	200	236	340	295	20(23)	22	8(12)	6,90(7,90)
200	225	238	340	295	20(23)	22	8(12)	6,70(7,70)
250	250	289	395(405)	350(355)	24(29)	22(26)	12	9,00(12,90)
250	280	295	395(405)	350(355)	24(29)	22(26)	12	8,50(12,30)
300	315	339	445(460)	400(410)	28(34)	22(26)	12	12,30(18,60)

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Flange backing rings

Notes

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Notes

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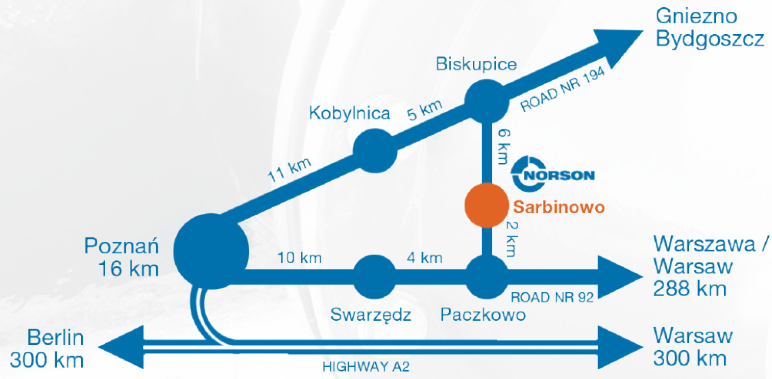

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